



EN

DVA-7996R

FM/MW/LW/RDS DVD Player

MP3 **MX****DAB**
CONTROL

DE

FR

ES

IT

SE

- OWNER'S MANUAL
Please read before using this equipment.
- BEDIENUNGSANLEITUNG
Lesen Sie diese Bedienungsanleitung bitte vor Gebrauch des Gerätes.
- MODE D'EMPLOI
Veuillez lire avant d'utiliser cet appareil.
- MANUAL DE OPERACIÓN
Léalo antes de utilizar este equipo.
- ISTRUZIONI PER L'USO
Si prega di leggere prima di utilizzare il attrezzatura.
- ANVÄNDARHANDLEDNING
Innan du använder utrustningen bör du läsa igenom denna användarhandledning.

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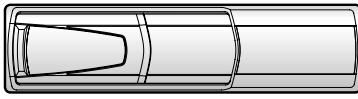
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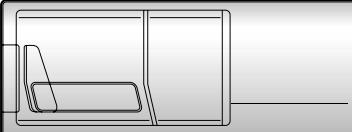
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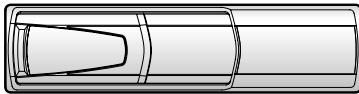
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**CHA-S634**

- CD changer for DVA-7996R
- CD-Wechsler für DVA-7996R
- Changeur CD pour le DVA-7996R
- Cambiador de CD para el DVA-7996R
- Caricatore CD per il DVA-7996R
- CD-växlare för DVA-7996R

**CHA-1214**

- CD changer for DVA-7996R
- CD-Wechsler für DVA-7996R
- Changeur CD pour le DVA-7996R
- Cambiador de CD para el DVA-7996R
- Caricatore CD per il DVA-7996R
- CD-växlare för DVA-7996R

**CHM-S630**

Alpine CD Changers Give You More!

More musical selections, more versatility, more convenience.

The CHA-S634 is a high-performance 6-disc changer with a new M DAC, CD-R/RW PLAY BACK, MP3 PLAY BACK and CD TEXT. The CHA-1214 Ai-NET model holds 12 discs, and the CHM-S630 M-Bus model is a super-compact 6-disc changer with a CD-R/RW PLAY BACK.

Von Alpine CD-Wechsletern haben Sie mehr!

Mehr Musikauswahl, mehr Vielseitigkeit, mehr Komfort.

Der CHA-S634 ist ein Hochleistungs-Wechsler für 6 CDs mit dem neuen M-DAC, mit CD-R/RW- und MP3-Wiedergabefunktion und mit CD-TEXT. Der CHA-1214 ist ein Ai-NET-Modell für 12 CDs. Der M-Bus-kompatible CHM-S630 ist ein superkompakter Wechsler für 6 CDs mit CD-R/RW-Wiedergabefunktion.

Changeurs de CD Alpine : vous avez le choix!

Plus de sélections musicales, plus de souplesse, plus de confort.

Le modèle CHA-S634 est un changeur 6 disques ultra performant équipé des nouvelles fonctions M DAC, CD-R/RW PLAY BACK, MP3 PLAY BACK et CD TEXT. Le modèle CHA-1214 Ai-NET contient 12 disques. Le modèle CHM-S630 M-Bus est un changeur 6 disques super compact doté de la fonction CD-R/RW PLAY BACK.

¡Los cambiadores Alpine de CD le ofrecen más!

Más selecciones musicales, más versatilidad y más ventajas.

CHA-S634 es un cambiador de seis discos de alto rendimiento con nuevo M DAC, CD-R/RW PLAY BACK, MP3 PLAY BACK y CD TEXT. El modelo CHA-1214 Ai-NET alberga 12 discos y el modelo CHM-S630 M-Bus es un cambiador de seis discos de tamaño reducido con un CD-R/RW PLAY BACK.

I caricatori CD Alpine danno di più!

Più scelta, più versatilità, più comodità.

Il modello CHA-S634 è un caricatore a 6 dischi ad elevate prestazioni dotato di un nuovo M DAC, CD-R/RW PLAY BACK, MP3 PLAY BACK e CD TEXT. Il modello CHA-1214 Ai-NET è in grado di contenere 12 dischi, il modello CHM-S630 M-Bus è un caricatore a 6 dischi ultra compatto dotato di un CD-R/RW PLAY BACK.

Alpines CD-växlare ger mer!

Fler musikal, mer variation, större bekvämlighet.

CHA-S634 är en växlare för 6 skivor med mycket höga prestanda och en ny M D/A-omvandlare samt uppspelning av CD-R/RW, MP3 och CD TEXT. CHA-1214 Ai-NET rymmer 12 skivor. CHM-S630 M-Bus är en mycket kompakt växlare med kapaciteten 6 skivor med uppspelning av CD-R/RW PLAY BACK.

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Displaying the disc status and
changing the settings

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WARNING

WARNING

This symbol means important instructions. Failure to heed them can result in serious injury or death.

DO NOT OPERATE ANY FUNCTION THAT TAKES YOUR ATTENTION AWAY FROM SAFELY DRIVING YOUR VEHICLE.

Any function that requires your prolonged attention should only be performed after coming to a complete stop. Always stop the vehicle in a safe location before performing these functions. Failure to do so may result in an accident.

KEEP THE VOLUME AT A LEVEL WHERE YOU CAN STILL HEAR OUTSIDE NOISE WHILE DRIVING.

Failure to do so may result in an accident.

DO NOT DISASSEMBLE OR ALTER.

Doing so may result in an accident, fire or electric shock.

USE ONLY IN CARS WITH A 12 VOLT NEGATIVE GROUND.

(Check with your dealer if you are not sure.) Failure to do so may result in fire, etc.

KEEP SMALL OBJECTS SUCH AS BATTERIES OUT OF THE REACH OF CHILDREN.

Swallowing them may result in serious injury. If swallowed, consult a physician immediately.

USE THE CORRECT AMPERE RATING WHEN REPLACING FUSES.

Failure to do so may result in fire or electric shock.

DO NOT BLOCK VENTS OR RADIATOR PANELS.

Doing so may cause heat to build up inside and may result in fire.

USE THIS PRODUCT FOR MOBILE 12V APPLICATIONS.

Use for other than its designed application may result in fire, electric shock or other injury.

DO NOT PLACE HANDS, FINGERS OR FOREIGN OBJECTS IN INSERTION SLOTS OR GAPS.

Doing so may result in personal injury or damage to the product.

CAUTION

This symbol means important instructions. Failure to heed them can result in injury or material property damage.

HALT USE IMMEDIATELY IF A PROBLEM APPEARS.

Failure to do so may cause personal injury or damage to the product. Return it to your authorized Alpine dealer or the nearest Alpine Service Center for repairing.

DO NOT MIX NEW BATTERIES WITH OLD BATTERIES. INSERT WITH THE CORRECT BATTERY POLARITY.

When inserting the batteries, be sure to observe proper polarity (+ and -) as instructed. Rupture or chemical leakage from the battery may cause fire or personal injury.

KEEP FINGERS AWAY WHILE THE MOTORIZED FRONT PANEL OR MOVING MONITOR IS IN MOTION.

Failure to do so may result in personal injury or damage to the product.

PRECAUTIONS

Temperature

Be sure the temperature inside the vehicle is between +60°C (+140°F) and -10°C (+14°F) before turning your unit on.

Moisture Condensation

You may notice the disc playback sound wavering due to condensation. If this happens, remove the disc from the player and wait about an hour for the moisture to evaporate.

Damaged Disc

Do not attempt to play cracked, warped, or damaged discs. Playing a bad disc could severely damage the playback mechanism.

Maintenance

If you have problems, do not attempt to repair the unit yourself. Return it to your Alpine dealer or the nearest Alpine Service Station for servicing.

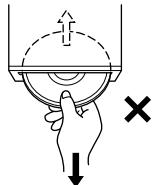
⚠️ WARNING

⚠️ PRECAUTIONS

Never Attempt the Following

Do not grip or pull out the disc while it is being pulled back into the player by the automatic reloading mechanism.

Do not attempt to insert a disc into the unit when the unit power is off.



Inserting Discs

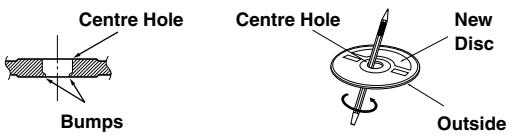
Your player accepts only one disc at a time for playback. Do not attempt to load more than one disc.

Make sure the label side is facing up when you insert the disc. Your player will automatically eject any disc that is inserted incorrectly. If the player continues to eject a correctly inserted disc, push the RESET switch with a pointed object such as a ballpoint pen.

Playing a disc while driving on a very bumpy road may result in skips, but this will not scratch the disc or damage the player.

New Discs

As a protective measure to prevent the Disc from jamming, the DVD player will automatically eject discs with irregular surfaces or inserted incorrectly. When a new disc is inserted into the player and ejected after initial loading, using your finger, feel around the inside of the centre hole and outside edge of the disc. If you feel any small bumps or irregularities, this could inhibit proper loading of the disc. To remove the bumps, rub the inside edge of the hole and outside edge of the disc with a ballpoint pen or other such instrument, then insert the disc again.



Irregular Shaped Discs

Be sure to use round shape discs only for this unit and never use any special shape discs.

Use of special shape discs may cause damage to the mechanism.



Installation Location

Make sure the DVA-7996R will not be installed in a location subjected to:

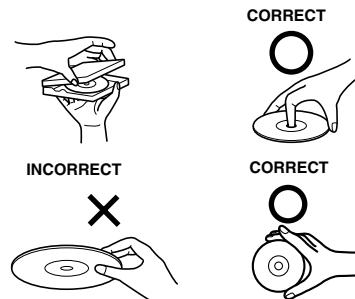
- Direct sun and heat
- High humidity and water
- Excessive dust
- Excessive vibrations

Handling the Detachable Front Panel

- Do not expose to rain or water.
- Do not drop or apply shock.

Correct Handling

Do not drop the disc while handling. Hold the disc so you will not leave fingerprints on the surface. Do not affix tape, paper, or gummed labels to the disc. Do not write on the disc.



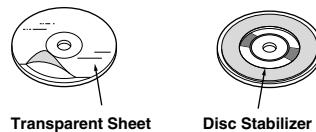
Disc Cleaning

Fingerprints, dust, or soil on the surface of the disc could cause the DVD player to skip. For routine cleaning, wipe the playing surface with a clean, soft cloth from the centre of the disc to the outer edge. If the surface is heavily soiled, dampen a clean, soft cloth in a solution of mild neutral detergent before cleaning the disc.



Disc Accessories

There are various accessories available on the market for protecting the disc surface and improving sound quality. However, most of them will influence the thickness and/or diameter of the disc. Using such accessories can cause the disc to be out of standard specifications and may create operational problems. We recommend not using these accessories on discs played in Alpine DVD players.



Discs playable on this unit

• Playable discs

The discs listed below can be played on this DVD head unit.

	Mark (logo)	Recorded content	Disc size	Max. playing time
DVD Video		Audio + Video (Moving pictures)	12 cm*	One-sided disc Approx. 4 hours
				Two-sided disc Approx. 8 hours
			8 cm	One-sided disc Approx. 80 Minutes
				Two-sided disc Approx. 160 Minutes
Video CD	 	Audio + Video (Moving pictures)	12 cm	Approx. 74 Minutes
			8 cm	Approx. 20 Minutes
Music CD	 	Audio	12 cm	Approx. 74 Minutes
			8 cm (CD single)	Approx. 20 Minutes

* Two-layer DVD disc compatible

You can play CD-Rs (CD-Recordable)/CD-RWs (CD-ReWritable) for audio use on this unit. You can also play CD-Rs/CD-RWs containing MP3 formatted audio files.

- Some of the following Discs may not play on this unit:
Flawed Discs, Discs with fingerprints, Discs exposed to extreme temperatures or sunlight (e.g., left in the car or this unit), Discs recorded under unstable conditions, Discs on which a recording failed or a re-recording was attempted.
- Use discs with MP3 files written in the format compliant with ISO 9660 level 1 or level 2. For details, see pages 32, 33.

To Customers using CD-R/CD-RW

- If a CD-R/CD-RW cannot be played back, make sure close session (finalization) has been performed.
- Finalize the CD-R/CD-RW if necessary, and attempt playback again.

Tips for making your own CDs

The DVA-7996R plays DVD Video, Video CD, Audio CD and has a built in MP3 decoder.

The following information is designed to help you create your own music CDs (either Audio CD or MP3 encoded CD-R/RW files).

What is the difference between an Audio and MP3 CD? An Audio CD is the same format as the commercial CDs you buy in the store (also known as CD-DA). MP3 (MPEG Audio Layer 3) is a data file that uses a compression scheme to reduce the size of the music file.*

Hybrid Audio CD and Data (MP3) CD-R/RW discs: The DVA-7996R can read either sector on the disc. Choose MixDisc CD to play the CD audio section or MixDisc MP3 to play the MP3 section.*

Multisession CD-R/RW: Once a recording has been stopped, this is considered one session. If the disc is not closed (finalized), additional data may be added. Once this additional data has been recorded, this becomes a "multisession" CD. The DVA-7996R can only read multisession DATA Formatted discs (MP3 files - Not Audio CD files).

MP3 ID3 Tag Information: The DVA-7996R read and displays MP3 ID3v1 tag information. MP3 files created with ID3v2 tag information can be played back but the tag info cannot be read or displayed.

Properly formatted MP3 Discs: Use ISO-9660 formatting to insure proper playback. You may use standard ISO naming Level 1 (8.3 DOS standard), Level 2 (32 characters) or Joliet, (Windows or Macintosh long filenames) file naming conventions.*

*Please consult the Owner's manual for additional information.

On handling Compact Discs (CD/CD-R/CD-RW)

- Do not touch the surface.
- Do not expose the disc to direct sunlight.
- Do not affix stickers or labels and do not write on the surface.
- Clean the disc when it is dusty.
- Make sure that there are no bumps around the disc.
- Do not use commercially available disc accessories.

Do not leave the disc in the car or the unit for a long time. Never expose the disc to direct sunlight. Heat and humidity may damage the disc and you may not be able to play it again.

• Discs that cannot be played

DVD-ROMs, DVD-R/DVD-RAMs, DVD-RWs, DVD+RWs, CD-ROMs (excluding MP3 files), photo CDs, etc.

• DVD region number (playable region number)

This DVD head unit will play back any disc whose region number is 2 (or All). DVDs with a region number other than those listed below, cannot be played on this DVD player.



• Video CDs

This DVD head unit is compatible with playback control (PBC) compatible video CDs (version 2.0).

"PBC" is a function by which you can use menu screens recorded on the disc to find the scene you want to watch and view various types of information in dialog style.

Continued

- Disc terminology

Title

If titles are programmed for the DVD, these are the largest unit of division of the information recorded on the disc.

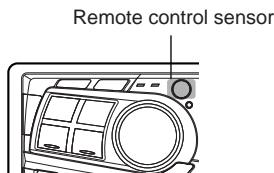
Chapter

Each Title may also be divided into smaller divisions called Chapters. These can be specific scenes or musical selections.

- * This product incorporates copyright protection technology that is protected by method claims of certain U.S. patents and other intellectual property rights owned by Macrovision Corporation and other rights owners. Use of this copyright protection technology must be authorized by Macrovision Corporation, and is intended for home and other limited viewing uses only unless otherwise authorized by Macrovision Corporation. Reverse engineering or disassembly is prohibited.
- * Manufactured under license from Dolby Laboratories. "Dolby", "Pro Logic" and the double-D symbol are trademarks of Dolby Laboratories. Confidential unpublished works. ©1992-1997 Dolby Laboratories. All rights reserved.
- * "DTS" is a registered trademark of Digital Theater Systems, Inc.

Notes on Using Remote Control

Point the remote control transmitter at the remote control sensor.



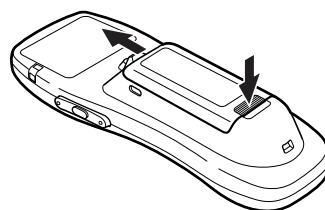
- Point the remote control at the remote sensor within about 2 meter.
- It may not be possible to operate the remote control unit if the remote control sensor is exposed to direct sunlight.
- The remote control is a small, light weight precision device. To avoid damage, short battery life, operational errors and poor button response, observe the following.
 - Do not apply any shock.
 - Do not put in a trouser pocket.
 - Keep away from food, moisture and dirt.
 - Do not place in direct sunshine.

Battery Replacement

Applicable battery: Use two "AAA" sized dry batteries or equivalent.

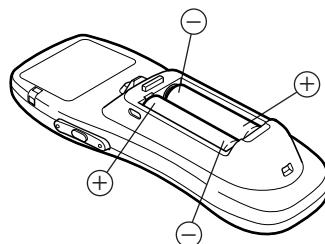
1 Opening the battery cover.

Push on the cover and slide it as indicated by the arrows then the cover will be removed.



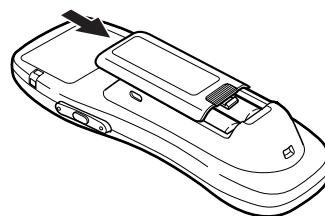
2 Replacing the battery.

Put the batteries in the case observing the polarities as illustrated.



3 Closing the cover.

Push the cover in the arrow direction until a click is heard.

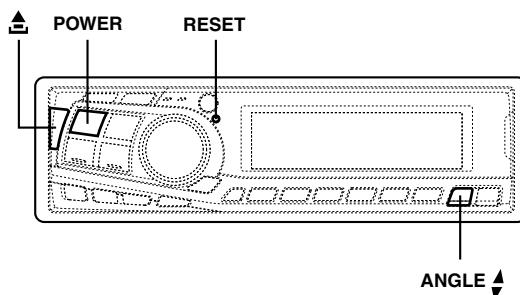


Warning

DO NOT OPERATE ANY FUNCTION THAT TAKES YOUR ATTENTION AWAY FROM SAFELY DRIVING YOUR VEHICLE.

Any function that requires your prolonged attention should only be performed after coming to a complete stop. Always stop the vehicle in a safe location before performing these functions. Failure to do so may result in an accident.

Basic Operation



- The DVA-7996R can be operated using both the buttons on the main unit and the included remote control unit (except for some operations). The section on audio operations (excluding DVD and video CD operations) mainly describes operations using the buttons on the main unit. For instructions on performing operations using the remote control unit, see page 49.

About Demonstration

This unit is equipped with a Demonstration function. Soon after resetting the unit or after turning the unit on the first time, the demonstration starts automatically. To cancel the demonstration, refer to "Demonstration" on page 18.

Connectable to Remote Control Interface Box

You can operate this unit from the vehicle's control unit when an Alpine Remote Control Interface Box (optional) is connected. For details, contact your Alpine dealer.

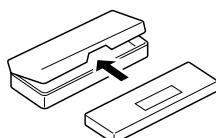
Detaching the Front Panel

- Press and hold the **POWER** button for at least 3 seconds to turn off the power.
- Press the **▲** (Release) button at left side until the front panel pops out.
- Grasp the left side of the front panel and pull it out.



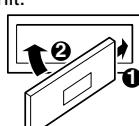
NOTES

- The front panel may become hot in normal usage (especially the connector terminals), this is not a malfunction.
- To protect the front panel, place it in the supplied carrying case.



Attaching the Front Panel

- First, insert the right side of the front panel into the main unit. Align the groove on the front panel with the projections on the main unit.
- Push the left side of the front panel until it locks firmly into the main unit.



NOTES

- Before attaching the front panel, make sure that there is no dirt or dust on the connector terminals and no foreign object between the front panel and the main unit.
- Attach the front panel carefully by holding the sides of the front panel. This will help you to avoid pushing buttons by mistake.

Initial System Start-Up

Be sure to press the **RESET** switch when using the unit for the first time, after installing the CD changer, etc., or after changing the car battery.

- Make sure that the power of the unit is off. If the power is on, press and hold the **POWER** button for at least 3 seconds to turn off the unit.
- Press the **RESET** switch with a ballpoint pen, or any other pointed object.



Turning Power On and Off

- Press the **POWER** button to turn on the unit.

NOTE

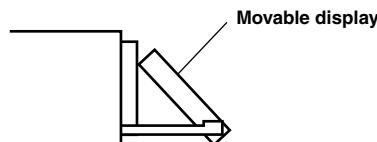
The unit can be turned on by pressing any other button except the eject **▲** button.

The volume level gradually increases to the previous level you were listening to before the unit was turned off. Press and hold the **POWER** button for at least 3 seconds to turn off the unit.

NOTE

The very first time the power is turned on, the volume will start from level 12.

Display Angle Adjustment



The movable display may be adjusted to 3 different angles depending upon user preference.

- Press the **ANGLE ▲▼** button to adjust the angle of the movable display.

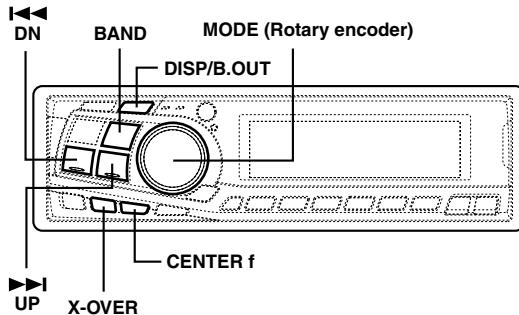
NOTES

- The adjusted angle of the display is stored in memory. There is no need to re-adjust the angle when the power is turned back on.
- When the display is fully opened, if you turn off the ignition key, after a while, the display will close fully. However, the display will not fully close when the angle of the display has been already stored in memory.

CAUTION

Keep hands (or any other object) away from the display while it is opening or closing to avoid damage or injury. The back of the movable display will get very warm under normal operating conditions. This is not a malfunction. Do not touch.

Basic Operation



Adjusting Volume/Balance (Between Left and Right)/Fader (Between Front and Rear)/Defeat

- 1 Press the **MODE (Rotary encoder)** button repeatedly to choose the desired mode.

Each press changes the modes as follows:

→ VOLUME → SUBWOOFER* → BALANCE → FADER → DEFEAT

Volume : 0 ~ 35 Fader : R15 ~ F15
Balance : L15 ~ R15 Subwoofer : 0 ~ +15

NOTES

- If the Rotary encoder is not turned in 5 seconds after selecting the BALANCE, FADER, DEFEAT and SUBWOOFER modes, the unit automatically sets in the VOLUME mode.
- *When subwoofer mode is OFF or when LINK (rear DVD function (page 40) is set to ON), its level cannot be adjusted.

- 2 Turn the **Rotary encoder** until the desired sound is obtained in each mode.

By setting Defeat ON, previously adjusted settings of Bass, Treble will return to the factory defaults, but MX will be turned off.

NOTE

Depending on the connected devices, some functions and display indications do not work.

Blackout Mode On and Off

When the Blackout mode is turned on, the display will turn off to reduce power consumption.

This additional power enhances the sound quality.

- 1 Press and hold the **B.OUT** button for at least 3 seconds to start the blackout mode. By doing so the display will turn off.

NOTE

If any button on the unit is pressed during the blackout mode, the function will be displayed for 5 seconds to show the operation before returning to Blackout mode.

To cancel the blackout mode, press and hold the **B.OUT** button for at least 3 seconds.

Changing the Audio Level Display Pattern

You can select the display pattern mode from three display patterns.

- 1 Press the **DISP (DISPLAY)** button to select the desired Display pattern mode.

Each press changes the display patterns.

→ Pattern 1 → Pattern 2 → Pattern 3 → OFF

Setting the Bass Control

You can change the Bass Frequency emphasis to create your own tonal preference.

- 1 Press the **CENTER f** button to select the BASS (bass Centre frequency) control mode.

→ BASS → TREBLE → normal mode

2-1 Setting the bass Centre frequency:

Press the **DN** or **UP** button to select the desired bass centre frequency.

→ 60Hz ↔ 70Hz ↔ 80Hz ↔ 90Hz ↔

→ 180Hz ↔ 150Hz ↔ 130Hz ↔ 100Hz ↔

Emphasizes the displayed Bass frequency ranges.

2-2 Setting the bass Band Width (Q-Factor):

Press the **BAND** button to select the desired bass Band Width.

→ B. Width1 → B. Width2 → B. Width3 → B. Width4 → (Wide) ← → (Narrow)

Changes the bass boost band width to narrow or wide. A wide setting will boost a wide range of frequencies above and below the centre frequency. A narrower setting will boost only frequencies near the centre frequency.

2-3 Setting the bass Level:

Turn the **Rotary encoder** to select the desired bass Level (-7~+7).

You can emphasize or weaken the bass frequency.

NOTES

- If no buttons are pressed within 15 seconds, the Bass control setting will be turned off automatically.
- The settings of the Bass Level will be individually memorized for each source (FM, MW (LW), CD, etc.) until the setting is changed. Once you set Bass frequency and Bass Band Width for one of sources (FM, MW (LW), CD, etc.), this setting becomes effective for all those sources.
- This function is inoperable when DEFEAT is ON.

Setting the Treble Control

You can change the Treble Frequency emphasis to create your own tonal preference.

1 Press the **CENTER f** button to select the TREBLE (treble centre frequency) control mode.

→ BASS → TREBLE → normal mode

2-1 Setting the treble centre frequency:

Press **◀◀ DN** or **▶▶ UP** button to select the desired treble centre frequency.

→ 10.0kHz ↔ 12.5kHz ↔ 15.0kHz ↔ 17.5kHz ←

Emphasizes the displayed Treble frequency ranges.

2-2 Setting the treble Level:

Turn the **Rotary encoder** to select the desired Treble Level (-7~+7).

You can emphasize the treble frequency.

NOTES

- If no buttons are pressed within 15 seconds, the Treble control setting will be turned off automatically.*
- The settings of the Treble Level will be individually memorized for each source (FM, MW (LW), CD, etc.) until the setting is changed. Once you set Treble frequency for one of sources (FM, MW (LW), CD, etc.), this setting becomes effective for all those sources.*
- This function is inoperative when DEFEAT is ON.*

Adjusting the built-in Crossover

The High and Low Pass Filters on this unit can be adjusted to suit your personal taste.

1 Press and hold the **X-OVER** button for at least 2 seconds.

→ HPF — <Press momentarily> → LPF* — <Press momentarily>
— <Press for at least 2 seconds> — normal mode ←

* When the subwoofer output of this unit is turned OFF, LPF and phase are deactivated.

2 Press the **◀◀ DN** or **▶▶ UP** button to select the desired setting.

1. HPF (Setting the High Pass Filter):

FLAT (OFF) ↔ 80Hz ↔ 120Hz ↔ 160Hz

Outputs all frequencies higher than that selected according to your preference.

2. LPF (Setting the Low Pass Filter):

FLAT (OFF) ↔ 80Hz ↔ 120Hz ↔ 160Hz

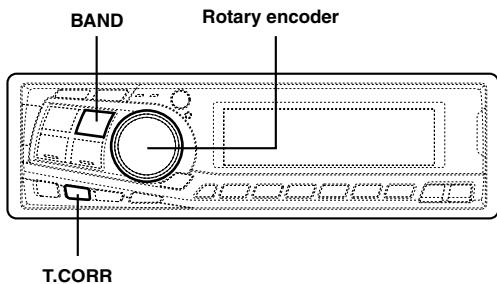
Outputs all frequencies lower than that selected according to your preference.

(Only available when using the subwoofer output from this unit.)

NOTES

- If HPF, LPF, Bass Control and Treble Control are all set to ON, depending on the Bass Control and Treble Control settings, you may not be able to reinforce the sound effect.*
- Except when the HPF and LPF is turned OFF, the subwoofer is in monaural mode.*
- When the subwoofer is set to OFF, LPF mode and change of phase does not work.*
- If no buttons are pressed within 15 seconds, the display for setup menu disappears while an ordinary menu appears on the display.*
- These functions are inoperative when an external, Ai-NET processor is connected.*

Basic Operation



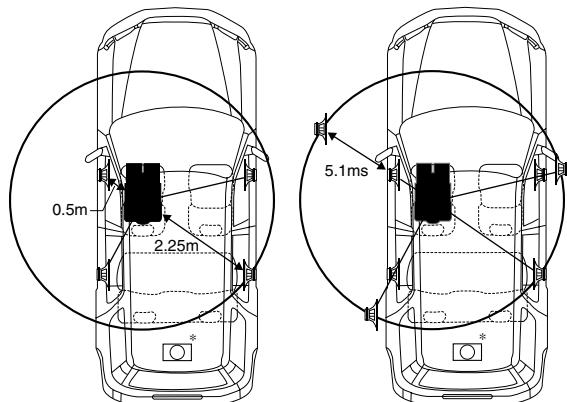
About the Time Correction

The distance between the listener and the speakers in a car vary widely due to the special conditions of the mobile environment. This difference in the distances from the speakers to the listener creates a shift in the sounds image and frequency characteristics. This is caused by the time delay between the sound reaching the listener's right versus the left ear.

To correct this, the DVA-7996R is able to delay the audio signal to the speakers closest to the listener. This effectively creates a perception of increased distance for those speakers. The listener can be placed at an equal distance between the left and right speakers for optimum staging. The adjustment will be made for each speaker in a step of 0.1 ms.

Example 1. Listening Position: Front Left Seat

Adjust the time correction level of the front left speaker to a high value and the rear right to zero or a low value.



Here we calculate the time correction value for the front left speaker in the diagram at the left.

Conditions:

Farthest Speaker – listening position : 2.25 m (88-9/16")

Front left speaker – listening position : 0.5 m (19-11/16")

Calculation: $L = 2.25 \text{ m} - 0.5 \text{ m} = 1.75 \text{ m}$ (68-7/8")

Time correction = $1.75 \div 343^* \times 1000 = 5.1 \text{ (ms)}$

*Speed of sound: 343 m/s (765 mph) at 20°C

In other words, giving the front left speaker a time correction value of 5.1 ms makes it seem as if the distance to the front left speaker is the same as the distance to the farthest speaker.

The sound is not balanced because the distance between the listening position and the various speakers is different. The difference in distance between the front left speaker and the rear right speaker is 1.75 m (68-7/8").

Time correction eliminates the differences in the time required for the sound to reach the listening position.

The time of the front left speaker is corrected by 5.1 ms so that its sound reaches the listening position at the same time as the sound of other speakers.

Example 2. Listening Position: All Seats

Adjust the time correction level of each speaker to almost the same level.

- 1 Sit in the listening position (driver's seat, etc.) and measure the distance (in meters) between your head and the various speakers.
- 2 Calculate the difference between the distance to the farthest speaker and the other speakers.
$$L = (\text{distance to farthest speaker}) - (\text{distance to other speakers})$$
- 3 Divide the distances calculated for the speakers by the speed of sound (343 m/s (765 mph) at 20°C). These values are the time correction values for the different speakers.



Tips

* Subwoofer speaker.

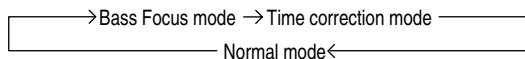
You cannot change the Time Correction value for the subwoofer, but you can set the subwoofer's apparent position to the front by adjusting the Time Correction value of the front and rear speakers.

For details, refer to the "Tips" on page 11.

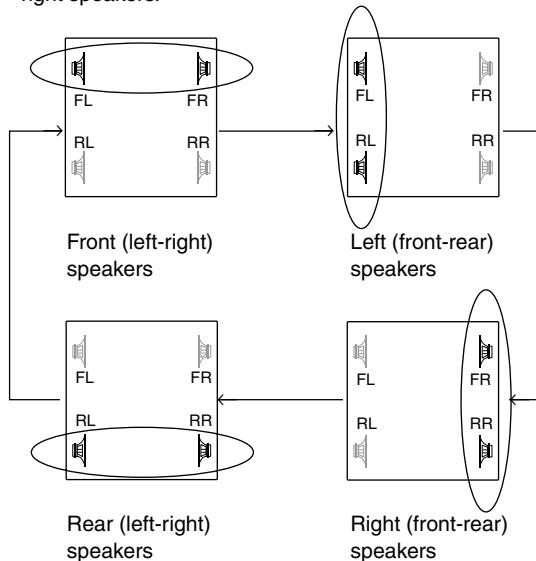
Bass Focus

The time difference between the front-rear/left-right speakers, can be adjusted at the same time. With an initial delay of 0.1 ms for each of the 0 to 99 steps, audible time correction can be done.

- 1 Press the **T.CORR** button to select the Bass Focus mode.



- 2 Press the **BAND** button to select the front-rear / left-right speakers.



- 3 Turn the **Rotary encoder** to adjust the front-rear / left-right delay.

- 4 For setting another channel (speaker), repeat the steps 2 and 3.

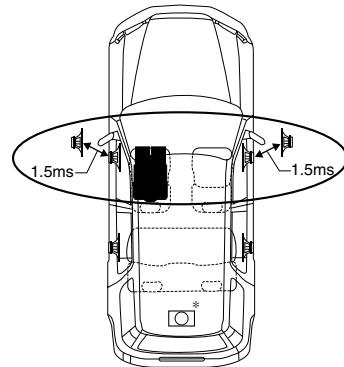
- 5 After setting, press the **T.CORR** button to return to the normal mode.

NOTES

- Any manual time correction adjustments will also affect corrections made in Bass Focus.
- Time Correction mode is automatically cancelled if no buttons are pressed within 15 seconds.

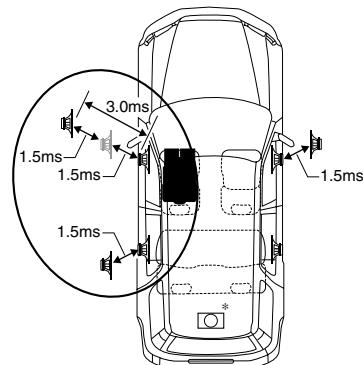
Example of Steps 2 and 3 Setting

- (1) After entering corrections for the front (left and right) speakers in STEP 15, the time difference is 1.5 ms for both front-left and front-right speakers.



- (2) After entering corrections for the left (front and rear) speakers in STEP 15, the time difference becomes 3.0 ms* for the front left speaker and 1.5 ms for the left rear speaker.

* Because the time difference was already set to 1.5 ms for the front left speaker in STEP 1, the additional correction in STEP 15 makes the time difference of the front left speaker 3.0 ms.



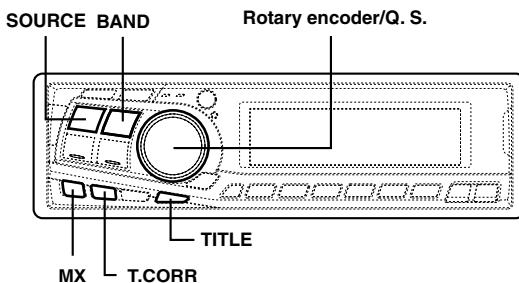
Tips

- * Subwoofer speaker.

Delay (turn the rotary encoder) the audio signal to the front (left and right) speakers to make the apparent position of the subwoofer to be at the front. In doing this, the apparent position between the front (left and right) speakers and subwoofer will appear equal to the driver. After performing above, you can change the positions of left and right speakers by delaying the time.

Continued

Basic Operation



Time Difference Table

Number of Steps	Time Difference (ms)	Number of Steps	Time Difference (ms)	Number of Steps	Time Difference (ms)
0	0.0	14	1.4	28	2.8
1	0.1	15	1.5	29	2.9
2	0.2	16	1.6	30	3.0
3	0.3	17	1.7	31	3.1
4	0.4	18	1.8	32	3.2
5	0.5	19	1.9	33	3.3
6	0.6	20	2.0	34	3.4
7	0.7	21	2.1	35	3.5
8	0.8	22	2.2	36	3.6
9	0.9	23	2.3	37	3.7
10	1.0	24	2.4	38	3.8
11	1.1	25	2.5	39	3.9
12	1.2	26	2.6	40 - 98	4.0 - 9.8
13	1.3	27	2.7	99	9.9

Time Correction

Before performing the following procedures, refer to "About the Time Correction" (page 10).

- 1 Make time corrections by pressing the **T.CORR** button. Each press changes the modes as follows:
→ Bass Focus mode → Time correction mode
- Normal mode -
- 2 Select a speaker to be adjusted by pressing the **BAND** button.
→ F - L → F - R → R - L → R - R -
- 3 Adjust the desired time correction value by turning the **Rotary encoder**.
- 4 For setting another speaker, repeat the step 2 and 3.
- 5 After setting, press the **Rotary encoder** to return to the normal mode.

NOTE

Time Correction mode is automatically cancelled if no buttons are pressed within 15 seconds.

Setting the MX Mode

MX (Media Xpander) makes vocals or instruments sound distinct regardless of the music source. The radio, CD and MP3, will be able to reproduce the music clearly even in cars with a lot of road noise.

- 1 Press the **MX** button to select MX ON.
- 2 Press the **SOURCE** button to select the source you want to MX (Media Xpander)-correct.
- 3 Press and hold the **MX** button for at least 2 seconds to select the MX mode.
- 4 Turn the **Rotary encoder** to select your preferred mode or OFF.
 - FM (MX level 1 to 3):
The medium to high frequencies become more clear, and produces well balanced sound in all the bands.
 - CD (MX level 1 to 3):
CD mode processes a large quantity of data. This data is used to reproduce the sound cleanly by making use of the data quantity.
 - MP3/DAB (MX level 1 to 3):
This corrects information that was omitted at the time of compression. This reproduces a well-balanced sound close to the original.
 - DVD (or Video CD):
 - (MOVIE MX level 1 to 2)
The dialog portion of the video is reproduced more clearly.
 - (MUSIC MX level 1)
This disc contains a large quantity of data such as music clip. MX uses this data to reproduce the sound accurately.
 - AUX (MX level 1):
Choose the MX mode (MP3, MUSIC, or MOVIE) that corresponds to the media connected.
- 5 After setting, press the **Rotary encoder** to return to the normal mode.

NOTES

- To cancel MX mode for all music sources, press the **MX** button to turn MX off.
- MX mode is automatically cancelled if no buttons are pressed within 15 seconds.
- You cannot set the MX mode while RDS and DAB are active.
- Setting to MX OFF makes MX mode of each music source OFF.
- This function is inoperable when DEFEAT is ON.
- By "Setting the External Input Defeat Mode" (page 17) to ON, operation is bypassed.
- Each music source, such as radio, CD, and MP3 can have its own MX setting.
- MX mode does not function when MX is ON for MW, LW radio.

Quick Searching Function

You can easily select tracks and files.

- 1 Press the **SOURCE** button to set the desired source mode.
(CD mode is explained here as an example)
- 2 When setting the CD mode, press and hold the **Q.S.** button for at least 2 seconds. The mode changes to the **Q.S.** (Quick Search) setting.
- 3 Select a desired track by turning the **Rotary encoder** to the right or left.
 - CD/Changer mode: Track can be selected.
 - MP3 mode: File number can be selected.
- 4 When the setting is completed, the Q.S. mode is cancelled by pressing the **Rotary encoder**.

NOTE

The Q.S. mode is automatically cancelled after 10 seconds if no buttons are pressed during step 2 and 3.

Displaying the Title/Text

It is possible to display the disc title if the title has been previously inputted. For details, see "Titling Disc" (page 14). Text information, such as the disc name and the track name, will be displayed if playing a CD text compatible disc. It is also possible to display the folder name, the file name, and the ID3 tag, etc. while playing MP3 files.

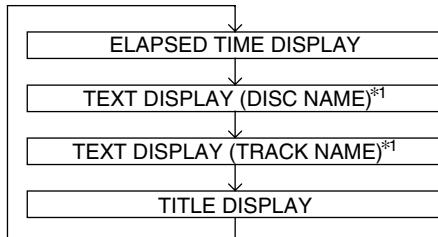
- 1 Press the **TITLE** button.
The mode will change every time the button is pressed.

About "Title" and "Text"

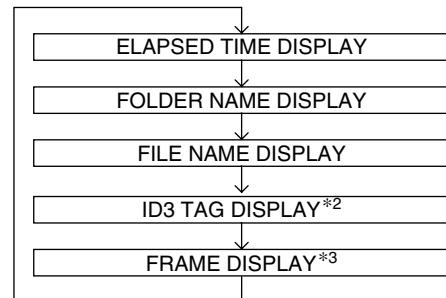
Title: With this device, it is possible to input the CD/DVD/Video CD name (refer to page 14). This inputted name is referred to as a "title."
You cannot input or display titles on MP3 discs.

Text: Text compatible CDs contain text information such as the disc name and track name. Such text information is referred to as "text."

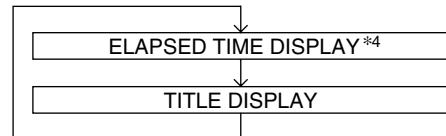
CD mode:



MP3 mode:



DVD/Video CD mode:



*1 Displayed during playback of a disc with CD Text. "NO TEXT" will be displayed when the CD contains no text data.

*2 If an MP3 file contains ID3 tag information, all the ID3 tag information is displayed (e.g., track name, artist name, and album name). All other tag data is ignored. "NO TAG" will be displayed when an MP3 file contains no ID3 tag information.

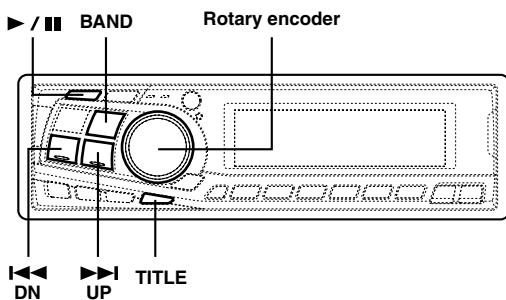
*3 The recording sampling rate and bit rate of the MP3 file are displayed.

*4 The playback elapsed time is displayed for video CD with the PBC function when PBC OFF is set.

NOTES

- Some characters may not be displayed correctly with this device, depending on the character type.
- The CD changer must also be CD Text compatible for the Text information to be displayed.
- When the Scroll Setting (refer to page 16) is set to "SCR MANUAL", press and hold the **TITLE** button for at least 3 seconds to scroll the Text information only once (TEXT DISPLAY, FOLDER NAME DISPLAY, FILE NAME DISPLAY or ID3 TAG DISPLAY mode).
- "NO SUPPORT" is displayed when the desired text information cannot be displayed on this unit.
- If the title was not previously input, "NO TITLE" is displayed.
- The operations to display the title/text and to select the title input operation cannot be performed using the **TITLE** button on the remote control unit.

Basic Operation



NOTES

- You can enter 18 disc titles on this unit. If you try to store beyond the limit, the audio display will show "FULL DATA". At this point, no more titles can be stored.
- The CD Changer title length or memory capacity varies depending upon the model being used.
- To input a new title, one of the previously inputted titles must first be deleted.
- When you want to erase a title, enter the "■" symbol into all spaces.
- The operations described in steps 3 to 5 must be made within 10 seconds. The input mode will be cancelled if no action is taken for over 10 seconds.
- Removing power from the unit may delete these titles. Use caution when manipulating the power cord.

Titling Discs

It is possible to title your favorite Disc's (CD, DVD, Video CD).

You cannot input or display titles on MP3 discs.

- 1 Press the **TITLE** button and select the title display mode.
For details, see "Displaying the Title/Text" (page 13).
- 2 Press and hold the **TITLE** button for at least 3 seconds. The first character will blink.
Press the **BAND** button to select the characters/symbols.
→ Upper case → Lower case → Numeral/Symbol
- 3 Turn the **Rotary encoder** to select the desired letter/numeral/symbol available for naming.
- 4 Press the **Rotary encoder** to store the first character. The first character will stop blinking and the display will automatically advance to the next character. When that character begins to blink, you may choose the next letter or symbol of your title.
- 5 Repeat the steps 3 and 4 above to complete the titling. Pressing the **Rotary encoder** after entering the 8th character, automatically stores the title into memory.
When entering a title of less than 8 characters (for example, 3 character title):
After entering 3 characters to complete your title, the 4th character space will be blinking. Go to step 6 to complete the title.
- 6 Press the **TITLE** button to record the title.

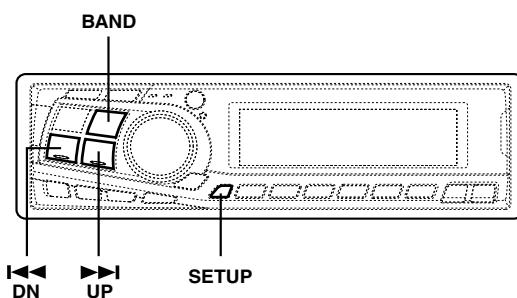
Erasing Disc Title

- 1 Press the **TITLE** button to select the titling mode. Then, press and hold the button for at least 3 seconds.
- 2 Press and hold the **►/■** button for at least 2 seconds to activate the title scanning mode. The title in the display will blink.
- 3 Press the **◀ DN** or **▶ UP** button repeatedly until the title you want to erase is displayed.
- 4 Press and hold the **►/■** button for at least 2 seconds to erase the title displayed.
- 5 Press the **TITLE** button to cancel the title erasing mode.

NOTES

- You cannot erase CD-TEXT.
- The operations will be cancelled if no action is taken for over 10 seconds.

SETUP Operation



Adjusting Source Signal Levels

If the difference in volume level between the CD player and FM radio is too great, adjust the FM signal level as follows.

- 1 Press and hold the **SETUP** button for at least 3 seconds.
- 2 Press the **◀ DN** or **▶ UP** button to select the FM-LV (FM LEVEL) mode.
- 3 Press the **BAND** button to select the FM signal level HI (High) or LO (Low) to make the signal levels between the FM band and CD player closer.
- 4 Press the **SETUP** button to return to normal mode.

NOTES

- "Setting the Range of MP3 File Selection" and "Playing MP3 Data" in the "SETUP" mode section are described in MP3 Operation on page 32.
- Audio-related setup function operations cannot be performed using the **SETUP** button on the remote control unit.

Setting the Sound Quality of the Tuner

The DVA-7996R incorporates the MAX TUNE Pro for the highest quality tuner audio. Moreover, you can choose between 3 settings to suit your own personal sound preferences and usage.

- 1 Press and hold the **SETUP** button for at least 3 seconds.
- 2 Press the **◀ DN** or **▶ UP** button to select "NORMAL" or "HI-FI" or "STABLE."
- 3 Press the **BAND** button to switch the TUNER mode.
→ NORMAL → HI-FI → STABLE

NORMAL : Standard setting

HI-FI : Sound quality priority setting

STABLE : Noiseless priority setting

NOTES

- The initial setting at the factory is "NORMAL."
- If you find the sound is very noisy while listening to the tuner in the HI-FI mode, we recommend you change to the NORMAL mode.

- 4 When the setting is completed, press the **SETUP** button to return to the normal mode.

Changing Lighting Color

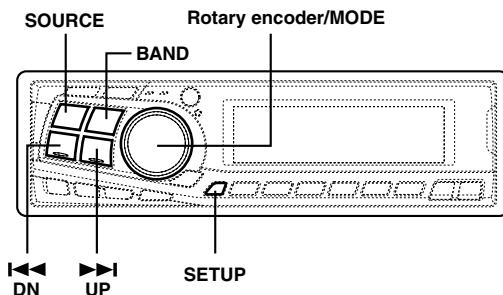
- 1 Press and hold the **SETUP** button for at least 3 seconds.
- 2 Press the **◀ DN** or **▶ UP** button to select "AMBER".
- 3 Press the **BAND** button to toggle the mode between AMBER ON (amber) and AMBER OFF (green).
- 4 Press the **SETUP** button to set the selected mode.

Dimmer Control

Set the DIMMER control to AUTO to decrease the illumination brightness of the unit with the head lights of the vehicle ON. This mode is useful if you feel the unit's backlighting is too bright at night.

- 1 Press and hold the **SETUP** button for at least 3 seconds.
- 2 Press the **◀ DN** or **▶ UP** button to select "DIM" (DIMMER).
- 3 Press the **BAND** button to select the Dimmer mode. Each press toggles between DIM AUTO and DIM MANUAL.
- 4 Press the **SETUP** button to activate the normal mode.

SETUP Operation



Subwoofer On and Off

- 1 Press and hold the **SETUP** button for at least 3 seconds.
- 2 Press the **◀ DN** or **▶ UP** button to select the "SUB-W (Subwoofer)" mode.
- 3 Press the **BAND** button to toggle mode between SUB-W ON or LINK and SUB-W OFF.
SUB-W ON: The subwoofer output is set to ON regardless of whether the rear DVD function (page 40) is set to ON or OFF.
SUB-W LINK: The subwoofer output is set to ON when the rear DVD function (page 40) is set to OFF.
The subwoofer output is set to OFF when the rear DVD function (page 40) is set to ON.
SUB-W OFF: The subwoofer output is set to OFF regardless of whether the rear DVD function (page 40) is set to ON or OFF.
- 4 Press the **SETUP** button after setting the SUB-W ON or LINK.
- 5 Press the **MODE** button repeatedly to select the SUB-W (Subwoofer) mode.

→ SUB-W → BALANCE

VOLUME ← DEFEAT ← FADER ←

Press the **◀ DN** or **▶ UP** button after selecting the SUB-W mode, and the subwoofer output phase is toggled SUBW NOR (0°) or SUBW REV (180°).

- 6 Turn **Rotary encoder** until the desired sound is obtained in each mode.

NOTES

- Initial mode is "Subwoofer ON."
- Set to "Subwoofer OFF" unless the subwoofer is used.
- The SUB-W LINK cannot be selected when our company's external processor is connected.
- It is not possible to adjust the subwoofer output level when "SUB-W LINK" is selected and the rear DVD function is turned on.
- Any subwoofer adjustment (level or phase) made while the rear DVD function is turned on, is stored in memory. The settings stored are recalled the next time the rear DVD function is turned on (only when our company's external processor is disconnected.).

Sound (Beep) Guide Function

This function will give audible feedback with varying tones depending upon the button pressed.

- 1 Press and hold the **SETUP** button for at least 3 seconds.
- 2 Press the **◀ DN** or **▶ UP** button to select "BEEP".
- 3 Press the **BAND** button to toggle the mode between BEEP ON and BEEP OFF.
NOTE
The initial setting at the factory is BEEP ON.
- 4 Press the **SETUP** button to set the selected mode.

Scroll Setting

This CD player can scroll the disc and track names recorded on CD-TEXT discs, as well as the text information of MP3 files, folder names, and ID3 tags.

- 1 Press and hold the **SETUP** button for at least 3 seconds.
- 2 Press the **◀ DN** or **▶ UP** button to select "SCR (SCROLL)".
- 3 Press the **BAND** button to toggle the mode between SCR AUTO and SCR MANUAL.
 - SCR AUTO: the CD text information, the text information of folder and file names, and the ID3 tags are scrolled automatically.
 - SCR MANUAL: the display is scrolled only when a disc is loaded or when a track is changed, etc.
- 4 When the setting is completed, press the **SETUP** button to return to the normal mode.

NOTES

- Initial mode is "SCR MANUAL."
- The unit scrolls CD text names, folder names, file names or ID3 tag display. The disc titles input manually (refer to page 14) cannot be scrolled.

Setting the AUX Mode (V-Link)

You can input TV/video sound by connecting an optional Ai-NET/RCA Interface cable (KCA-121B) or Versatile Link Terminal (KCA-410C) to this component.

- 1 Press and hold the **SETUP** button for at least 3 seconds.
- 2 Press the **◀◀ DN** or **▶▶ UP** button to select “AUX.”
- 3 Press the **BAND** button to toggle the mode between AUX ON and AUX OFF.
NOTES
 - The initial setting at the factory is AUX OFF.
 - You can set the AUX mode display by pressing the **◀◀ DN** or **▶▶ UP** button after AUX ON is set. Select the AUX mode display setting and press the **BAND** button.
 - When connecting the KCA-410C, you can set two AUX mode displays.
- 4 Press the **SETUP** button to return to normal mode.

- 5 To adjust the volume, etc., first press the **SOURCE** button and select the AUX mode, then make the necessary adjustment.

NOTE

When using the Versatile Link Terminal (KCA-410C), you can connect two external inputs. To select the mode, press the **BAND** button on the unit.

Turning Mute Mode On/Off

If a device having the interrupt feature is connected, audio will be automatically muted whenever the interrupt signal is received from the device. This function can be turned ON or OFF from the head unit by following procedure below.

- 1 Press and hold the **SETUP** button for at least 3 seconds.
- 2 Press the **◀◀ DN** or **▶▶ UP** button to select the MUTE mode.
- 3 Press the **BAND** button to turn on or off the MUTE mode.
Each press toggles between the MUTE ON and OFF modes.
NOTE
The initial setting at the factory is “MUTE ON.”
- 4 Press the **SETUP** button again to return to normal operation.

Setting the External Input Defeat Mode

Turn DEFEAT ON to bypass BASS, TREBLE and MX settings for any source using the external input.

- 1 Press and hold the **SETUP** button for at least 3 seconds.
- 2 Press the **◀◀ DN** or **▶▶ UP** button to select “INT”
- 3 Press the **BAND** button to toggle the mode between INT ON and INT OFF.
When using Initial mode, set this to ON.
When the Initial mode is not selected, set this to OFF.
- 4 Press the **SETUP** button to return to normal mode.

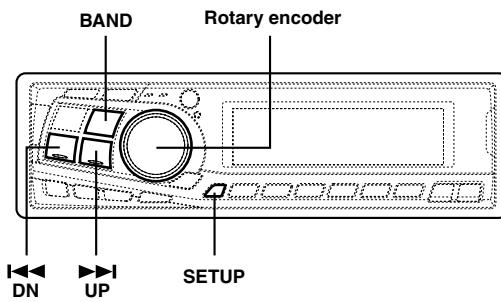
Setting the Digital Output

To connect an audio processor using the optical digital output, set to “ON” with the following procedure.

- 1 Press and hold the **SETUP** button for at least 3 seconds.
- 2 Press the **◀◀ DN** or **▶▶ UP** button to select “OPTOUT” mode.
- 3 Press the **BAND** button to set ON.
NOTE
The initial setting at the factory is “OPTOUT OFF”.
- 4 Press the **SETUP** button to return to normal mode.

NOTE
Afterwards, set ACC to OFF once, then turn it ON again.
The setting of Digital Output is decided.

SETUP Operation



Optical Digital Input Selection for an External Audio Processor

Make sure "OPTOUT" is ON in "Setting the Digital Output" (page 17) before switching this setting.

- 1 Press and hold the **SETUP** button for at least 3 seconds.
- 2 Press the **◀ DN** or **▶ UP** button to select "APRC OTHER".

NOTE

When OPTOUT is ON, "APRC OTHER" is displayed.

- 3 Press the **BAND** button to toggle the mode between APRC OTHER and APRC H510.
APRC OTHER: When connecting any audio processor via the optical digital cable except the PXA-H510.
APRC H510: When connecting PXA-H510.
- 4 Press the **SETUP** button to activate the normal mode.

NOTE

Afterwards, set ACC to OFF once, then turn it ON again.
The setting of fiber digital input switch is decided.

Demonstration

This unit has a Demonstration feature which simulates the display functions.

- 1 Press and hold the **SETUP** button for at least 3 seconds.
- 2 Press the **◀ DN** or **▶ UP** button to select the DEMO mode.
- 3 Press the **BAND** button to turn on or off the DEMO mode.
Each press toggles between DEMO ON and DEMO OFF.

If no button is pressed for 30 seconds, the DEMO mode activates.

NOTES

- The initial setting at the factory is "DEMO ON."
- To quit DEMO mode, set to "DEMO OFF."

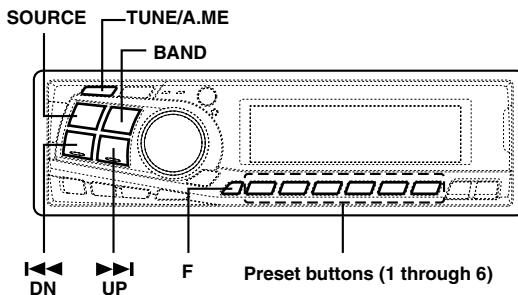
- 4 Press the **SETUP** button again to return to normal operation.

Adjusting Display Contrast

You can adjust the audio display contrast for better visibility.

- 1 Press and hold the **SETUP** button for at least 3 seconds.
- 2 Press the **◀ DN** or **▶ UP** button to select "CONTRAST".
- 3 Turn the **Rotary encoder** to adjust the contrast of the audio display. You can adjust in a range of -6 and +6. The initial setting at the factory is "0".
- 4 Press the **SETUP** button to set the selected mode.

Radio Operation



Manual Tuning

- 1 Press the **SOURCE** button to select the radio mode.
- 2 Press the **BAND** button repeatedly until the desired radio band is displayed.
Each press changes the band:
→FM1 →FM2 →FM3 → MW → LW
- 3 Press the **TUNE** button repeatedly until "DX SEEK" and "SEEK" disappear from the display.

NOTE

The initial mode is DX SEEK.

- 4 Press the **◀ DN** or **▶ UP** button to move downward or upward one step respectively until the desired station frequency is displayed.

NOTE

The ST indicator appears on the display when a Stereo FM station is tuned in.

Automatic Seek Tuning

- 1 Press the **SOURCE** button to select the radio mode.
- 2 Press the **BAND** button repeatedly until the desired radio band is displayed.
Each press changes the band:
→FM1 →FM2 →FM3 → MW → LW
- 3 Press the **TUNE** button to illuminate the DX and SEEK indicators in the display.
The SEEK indicator illuminates. With the DX mode activated, both strong and weak stations will be tuned in the Auto-Seek operation.
Press again to return to the local mode. The DX indicator will turn off and the SEEK indicator will illuminate. Now, only strong stations will be tuned.

- 4 Press the **◀ DN** or **▶ UP** button to automatically seek a station downward or upward respectively. The unit will stop at the next station it finds. Press the same button again to seek the next station.

Manual Storing of Station Presets

- 1 Select the radio band and tune in a desired radio station you wish to store in the preset memory.
- 2 Press the **F** button so that the "FUNC" indicator light goes out. Press and hold the **Preset buttons (1 through 6)** that you want to store the station on for at least 2 seconds.
The selected station is stored. The display shows the band, preset No. with a triangle (△) and station frequency memorized.
- 3 Repeat the procedure to store up to 5 other stations onto the same band.
To use this procedure for other bands, simply select the band desired and repeat the procedure.
A total of 30 stations can be stored in the preset memory (6 stations for each band; FM1, FM2, FM3, MW and LW).

NOTE

If you store a station in a preset memory which already has a station, the current station will be cleared and replaced with the new station.

Automatic Memory of Station Presets

- 1 Press the **BAND** button repeatedly until the desired radio band is displayed.
- 2 Press and hold the **A.ME** button for at least 2 seconds. The tuner will automatically seek and store 6 strong stations in the selected band in order of signal strength.
The frequency on the display continues to change while the automatic memory is in progress.
When the automatic memory has been completed, the tuner goes to the station stored in the preset location No. 1.

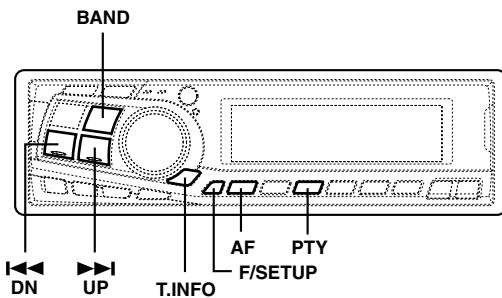
NOTE

If no stations are stored, the tuner will return to the original station you were listening to before the auto memory procedure began.

Tuning to Preset Stations

- 1 Press the **BAND** button repeatedly until the desired band is displayed.
- 2 Press the **F** button so that the "FUNC" indicator light goes out. Then press the station preset button that has your desired radio station in memory.
The display shows the band, preset number with a triangle and frequency of the station selected.

RDS Operation



Setting RDS Reception Mode and Receiving RDS Stations

The RDS (Radio Data System) is a radio information system using the 57 kHz subcarrier of regular FM broadcast. The RDS allows you to receive a variety of information such as traffic information, station names, and to automatically re-tune to a stronger transmitter that is broadcasting the same programme.

- 1 Press the **F** button so that the “FUNC” indicator lights up.
- 2 Press the **AF** button to activate the RDS mode.
- 3 Press the **◀ DN** or **▶ UP** button to tune in the desired RDS station.

NOTE
*When the **BAND** button is pressed and held for at least 2 seconds while the PS (Programme Service Name) or Radio Text display is being displayed, the display shows the station frequency for 5 seconds, then returns to the previous display.*

- 4 Press the **AF** button again to deactivate the RDS mode.
- 5 Press the **F** button to activate the normal mode. The “FUNC” indicator light goes out.

Tips

- When the unit receives the PTY31 (Emergency Broadcast) signal, the unit will show “ALARM” in the display automatically.
- The RDS digital data includes the followings:

PI	Programme Identification
PS	Programme Service Name
AF	List of Alternative Frequencies
TP	Traffic Programme
TA	Traffic Announcement
PTY	Programme Type
EON	Enhanced Other Networks

Recalling Preset RDS Stations

- 1 Press the **F** button so that the “FUNC” indicator lights up.
- 2 Press the **AF** button to activate the RDS mode.
- 3 Press the **F** button to activate the normal mode. The “FUNC” indicator light goes out.
- 4 Make sure that the “FUNC” indicator light goes out, then press the preset button in which your desired RDS station is preset.
If the preset station's signal is weak, the unit automatically searches and tunes to a stronger station in the AF (Alternative Frequencies) list.
- 5 If the preset station and the stations in the AF list cannot be received:
When the PI SEEK setting is on (refer to “PI SEEK Setting” on page 21), the unit searches again for a station in the PI (Programme Identification) list.
If there are still no stations receivable in the area, the unit displays the frequency of the preset station and the preset indicator disappears.
If the signal level of the Regional (Local) station being tuned becomes too weak to receive, press the same preset button to tune in a Regional station in other district.

NOTE

For presetting the RDS stations, refer to the Radio Operation section. The RDS stations can be preset in the FM1, FM2 and FM3 bands only.

Receiving RDS Regional (Local) Stations

- 1 Press and hold the **SETUP** button for at least 3 seconds to activate the setting mode.
- 2 Press the **◀ DN** or **▶ UP** button to select the RDS REG mode.
- 3 Press the **BAND** button to turn on or off the RDS REG (Regional) mode.
In the RDS REG OFF mode, the unit automatically keeps receiving the related local RDS station.
- 4 Press the **SETUP** button to deactivate the setting mode.

PI SEEK Setting

- 1 Press and hold the **SETUP** button for at least 3 seconds.
- 2 Press the **◀ DN** or **▶ UP** button to select “PI SEEK.”
- 3 Press the **BAND** button to toggle the mode between “PI SEEK ON” and “PI SEEK OFF.”
- 4 Press the **SETUP** button to set the selected mode.

Receiving Traffic Information

- 1 Press the **T.INFO** button repeatedly until the T.INFO indicator appears in the display.
- 2 Press the **◀ DN** or **▶ UP** button to select your desired traffic information station. When a traffic information station is tuned in, the TP indicator lights up.

Traffic information is heard only when it is being broadcast. If traffic information is not being broadcast, the unit is set in the standby mode. When a traffic information broadcast begins, the unit automatically receives it and the display shows “TRF-INFO” for a few seconds and returns to the PS display.

When the traffic information broadcast is over, the unit will automatically set in the standby mode.

NOTES

- If the traffic information broadcast signal falls below a certain level, the unit remains in the receiving mode for 1 minute. If the signal remains below a certain level for over 1 minute, the “T.INFO” indicator blinks.
- If you do not want to listen to the traffic information being received, lightly press the T.INFO button to skip that traffic information message. The T.INFO mode will remain in the ON position to receive the next traffic information message.
- If the volume level is changed while receiving traffic information, the changed volume level will be memorized. When traffic information is received next time, the volume level will be automatically adjusted to the level memorized.
- In the T.INFO mode, the SEEK tuning selects only the TP stations.

Receiving Traffic Information While Playing CD or Radio

- 1 Press the **T.INFO** button repeatedly until the T.INFO indicator appears in the display.
- 2 Press the **◀ DN** or **▶ UP** button to select a traffic information station if necessary.
 - When a traffic information broadcast starts, the unit automatically mutes the CD player/changer or the regular FM broadcast.
 - When the traffic information broadcast finishes, the unit automatically returns to the original source play before the traffic information broadcast began.

When traffic information stations cannot be received:

In the tuner mode:

When the TP signal can no longer be received for over 1 minute, the “T.INFO” indicator blinks.

In the CD mode:

When the TP signal can no longer be received, the traffic information station of another frequency will be selected automatically.

NOTE

The receiver is equipped with the EON (Enhanced Other Networks) function in order to keep track of additional alternate frequencies to the AF list. The EON indicator appears while an RDS EON station is being received. If the station being received does not broadcast the traffic information, the receiver automatically tunes in the related station that broadcasts the traffic information when it occurs.

- 3 Press the **T.INFO** button to deactivate the Traffic Information mode.

The T.INFO indicator disappears.

PTY (Programme Type) Tuning

- 1 Press the **F** button so that the “FUNC” indicator lights up.
- 2 Press the **PTY** button to activate the PTY mode, while the unit is in Radio (FM receiving) mode. The Programme Type of the station being currently received will be displayed for 5 seconds.
 - If there is no receivable PTY broadcast, “NO PTY” will be displayed for 5 seconds.
 - If no RDS station can be received, the display shows “NO PTY.”

NOTE

If no button is pressed within 5 seconds after pressing the PTY button, the PTY mode will be automatically cancelled.

- 3 Press the **◀ DN** or **▶ UP** button within 5 seconds after activating the PTY mode to choose the desired programme type while the PTY (programme type) is being displayed. Each press scrolls the programme type by one.

- - · LIGHT M ← CLASSICS → OTHER M - -

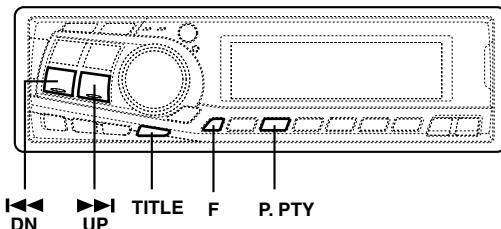
- 4 Press the **PTY** button within 5 seconds after selecting the programme type to start searching for a station in the selected programme type.
The chosen programme type indicator blinks during searching and lights when a station is found.
If no PTY station is found, “NO PTY” will be displayed for 2 seconds.

- 5 Press the **F** button to activate the normal mode. The “FUNC” indicator light goes out.

NOTE

Operate the unit while the “FUNC” indicator is lights up. If no buttons are pressed within 5 seconds, the “FUNC” indicator light goes out.

RDS Operation



Priority PTY (Programme Type)

This function allows presetting of a programme type such as music category, news, etc. You can listen to a programme in the preset programme type as the unit automatically gives priority to the preset programme type when it begins broadcasting, and interrupts the programme you are currently listening. This feature is functional when your unit is set to a mode other than the LW and MW.

- 1 Press the **F** button. The “FUNC” indicator lights up.
- 2 Press the **P. PTY** button to activate the PRIORITY PTY mode. “PRIO-PTY” is displayed for 2 seconds and then the programme type for 3 seconds. The initial setting is “NEWS.”

NOTE
If no buttons are pressed within 5 seconds after pressing the P. PTY button, the PRIORITY PTY mode is automatically cancelled.
- 3 Press the **◀ DN** or **▶ UP** button within 5 seconds while “NEWS” is being displayed to choose a desired programme type. Then press **P. PTY** button. The PRIORITY PTY function will activate.
- 4 Press the **P. PTY** button to activate the PRIORITY PTY mode again.
 - To change the programme category, perform the step 3.
 - To disable the PRIORITY PTY function, press and hold the **P. PTY** button for at least 2 seconds.

NOTES

- In the PRIORITY PTY function, unlike in the T.INFO function, the volume does not increase during operation.
- When priority PTY interrupts the programme, the preset No. is displayed as “P”.

- 5 Press the **F** button to activate the normal mode. The “FUNC” indicator light goes out.

NOTE

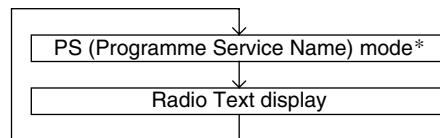
Operate the unit while the “FUNC” indicator is lights up. If no buttons are pressed within 5 seconds, the “FUNC” indicator light goes out.

Displaying Radio Text

Text messages from a radio station can be displayed.

- 1 Press the **TITLE** button while receiving FM in the radio mode to select the Radio Text display.

The display will change every time the button is pressed.

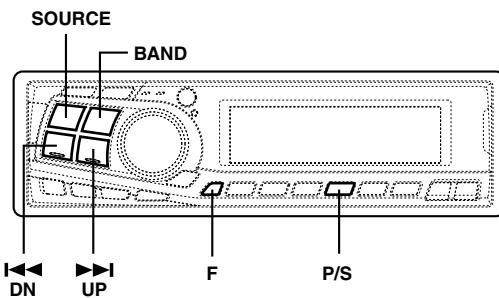


The display shows “WAITING” for a few seconds, then starts scrolling the text message.

NOTES

- If there is no receivable text message or the unit cannot receive a text message properly, the display shows “NO TEXT” for 2 seconds.
- When the **BAND** button is pressed and held for at least 2 seconds while the PS (Programme Service Name) or Radio Text display is being displayed, the display shows the station frequency for 5 seconds, then returns to the previous display.
- * If there is no PS display, the frequency will be displayed.

DAB Operation



Using DAB Receiver for the Ensemble Seek Tuning (Optional)

DAB (Digital Audio Broadcasting) offers excellent sound quality even in a moving vehicle, enabling you to receive various types of information, including weather and traffic information, and it also displays information sent from the broadcasting stations. You can also let urgent broadcasts or announcements interrupt a current broadcast.

NOTES

- If you connect the DAB Receiver Box TUA-T100DAB (separately sold), you can control DAB for the reception of broadcast.
- CD quality sound can be obtained from DAB broadcasts, although quality may differ on some services.
- Some broadcasting stations may perform test broadcasts.
- When DAB reception is poor, metallic noise may occur. This is not a malfunction.

- 1 Press the **SOURCE** button to select DAB.
- 2 Press the **BAND** button to select DAB1, DAB2, or DAB3.
- 3 If you press and hold the **DN** or **UP** button while receiving DAB1, 2, or 3, it starts searching for ensemble automatically.

By selecting the mode in the "Changing the Display Mode" section (see page 25), the display shows the status of the broadcasting stations that have been received as follows:

Channel No. Display: the channel numbers of received stations are displayed.

Ensemble Label Display: the Ensemble Label of received station is displayed.

Service Label Display: the Ensemble Label is displayed for 2 seconds and then the Service Label is displayed after receiving the broadcasting station.

Component Label Display: the Ensemble Label is displayed for 2 seconds, then the Service Label is displayed for 2 seconds, and then the display is changed to the Component Label after receiving the broadcasting station.

Dynamic Label Display: the Ensemble Label is displayed for 2 seconds, then the Service Label is displayed for 2 seconds, and then the display is changed to the Dynamic Label after receiving the broadcasting station.

- 4 If you want to see the frequency display, press and hold the **BAND** button for at least 3 seconds (the frequency is displayed for 5 seconds), and then you return to the display that you selected with the steps described under the section "Changing the Display Mode" (see page 25).



When you use DAB, you can select a desired ensemble which may contain one or more services, any of which can be received. Furthermore, each service contains a Service Component, which itself can contain any number of Primary or Secondary services, depending on the Service Component. Several different kinds of service can therefore be selected.

Changing the Service

Services are received within the ensemble that you are currently receiving.

- 1 While receiving the ensemble, momentarily press the **DN** or **UP** button, and select the service that you desire. The selected service label is displayed for 2 seconds, and then you return to the display that you select with the steps described under the section "Changing the Display Mode" (see page 25).

Changing the Service Component

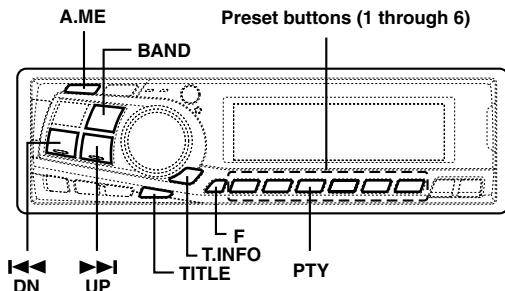
You can change Audio Services of the Service Component between the Primary and Secondary, when listening to an Audio Service that has a Secondary Service Component.

- 1 Press the **F** button to turn on the "FUNC" indicator.
- 2 Press the **P/S** button to change the Service Component between the Primary and Secondary broadcast. Every time you press the button the selection toggles. The Component label is displayed for 2 seconds, and then you return to the display that you selected with the steps described under the section "Changing the Display Mode" (see page 25).

NOTE

If there exists a Secondary Service Component within a service, the indicator "S" blinks on the display, "P" indicator lights ON. When receiving the Secondary Service Component, the indicator "S" remains lit "P" indicator lights OFF.

DAB Operation



Memorizing the Service

- 1 Select the service that you want to memorize.
- 2 Press any one of the **Preset buttons (1 through 6)** for at least 2 seconds while the “FUNC” indicator light goes out. The selected service is memorized.
- 3 To memorize more, repeat the above steps 1 and 2.

NOTES

- You can memorize up to 18 stations (6 stations for each band; DAB1, DAB2, DAB3).
- If you select a preset button that has already memorized a service, the new selection takes it over.
- When you are not receiving DAB, the service is not memorized. (Memorize the service when the DAB reception is good.)

Receiving the Memorized Service

- 1 Press the **BAND** button to select your desired band.
- 2 Press one of the **Preset buttons (1 through 6)**.
The selected service is received.
By selecting the mode in the “Changing the Display Mode” section (see page 25), the display shows the status of the broadcasting stations that have been received as follows:

Channel No. Display: the channel numbers of received stations are displayed.

Ensemble Label Display: the Ensemble Label of received station is displayed.

Service Label Display: the Ensemble Label is displayed for 2 seconds and then the Service Label is displayed after receiving the broadcasting station.

Component Label Display: the Ensemble Label is displayed for 2 seconds, then the Service Label is displayed for 2 seconds, and then the display is changed to the Component Label after receiving the broadcasting station.

Dynamic Label Display: the Ensemble Label is displayed for 2 seconds, then the Service Label is displayed for 2 seconds, and then the display is changed to the Dynamic Label after receiving the broadcasting station.

NOTE

When you receive the Secondary Service Component, you memorize the service, but when you call out this memorized service, the Primary Service Component will be called out.

Memorizing the Ensemble Automatically

- 1 Press the **BAND** button to select the band that you want to receive.
- 2 Press and hold the **A.ME** button for at least 2 seconds. The ensemble is searched for, and six ensembles are automatically received and memorized with the preset buttons (1 through 6).
When memorization has completed, the Ensemble that was memorized last is received.

By selecting the mode in the “Changing the Display Mode” section (see page 25), the display shows the status of the broadcasting stations that have been received as follows:

Channel No. Display: the channel numbers of received stations are displayed.

Ensemble Label Display: the Ensemble Label of received station is displayed.

Service Label Display: the Ensemble Label is displayed for 2 seconds and then the Service Label is displayed after receiving the broadcasting station.

Component Label Display: the Ensemble Label is displayed for 2 seconds, then the Service Label is displayed for 2 seconds, and then the display is changed to the Component Label after receiving the broadcasting station.

Dynamic Label Display: the Ensemble Label is displayed for 2 seconds, then the Service Label is displayed for 2 seconds, and then the display is changed to the Dynamic Label after receiving the broadcasting station.

NOTE

If no ensemble is received, the one that has been received before you perform this automatic memorization is received.

PTY (Programme Type) Tuning

- 1 Press the **F** button to turn on the “FUNC” indicator.
- 2 During radio (DAB receiving) mode, press the **PTY** button to go to the PTY Select mode.
- 3 Press the **◀ DN** or **▶ UP** button to select your desired programme type.
- 4 After selecting a programme type, and when the “FUNC” indicator is turn on, press the **PTY** button to go to the PTY Search mode.
The selected programme type is searched for.

NOTE

To cancel the PTY Search mode during the PTY search, press the **PTY** button.

- 5 When the station is received, the received programme type is displayed for 5 seconds. If no station is found, “NO PTY” is displayed for 5 seconds.

NOTE

Above functions can be performed only for services within an ensemble.

Turning ON/OFF Traffic News Announcement

When you set to ON, you can automatically receive the Traffic News.

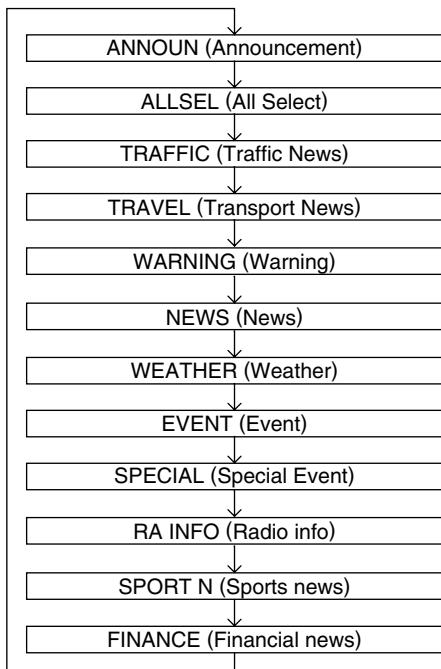
- 1 Press the **T.INFO** button to set ON/OFF for the Traffic News.

NOTES

- You can also set the RDS stations at the same time.
- This operation can also be performed by turning the Traffic News ON/OFF in the “Setting the Announcement Select Mode” section on this page.

Setting the Announcement Select Mode

- 1 Press the **T.INFO** button for at least 2 seconds to turn ON the Announcement Select mode.
- 2 Press the **◀ DN** or **▶ UP** button to select “ANNOUN,” and then press the **BAND** button to set it ON.
- 3 After turning ON the “ANNOUN,” press the **◀ DN** or **▶ UP** button to select your desired Announcement.



- 4 Press the **BAND** button to set ON/OFF for the selected Announcement.
Repeat Steps 3 and 4 to set more.

- 5 To set the Announcement Select mode OFF, press the **T.INFO** button for at least 2 seconds.

NOTES

- When one of the selections between ALLSEL (All Select) and FINANCE (Financial news) is set ON, no announcement interrupts are made if you set OFF for the ANNOUN (Announcement).
- If you set ON/OFF with the ALLSEL (All Select) selection, you can set ON/OFF for the selections from TRAFFIC (Traffic News) to FINANCE (Financial news).
- The ON/OFF setting of TRAFFIC (Traffic News) is reflected in the setting of the “Turning ON/OFF Traffic News Announcement” section on this page.



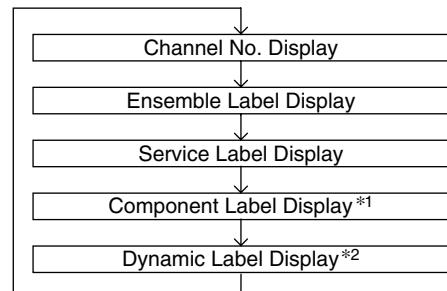
Tips

- When an urgent broadcast is received, the mode automatically changes to the DAB mode to receive the Alarm Announcement. If you adjust the volume level at this time, that volume level is memorized, and that volume level is applied the next time you receive an urgent broadcast.
- If the announcement that you select in Step 3 interrupts, the selected announcement Label is displayed. If you adjust the volume level at this time, that volume level is memorized, and that volume level is applied the next time announcement interrupts.

Changing the Display Mode

You can display information that is sent from broadcasting stations, such as the channel number or the service name that you are receiving or listening.

- 1 While receiving DAB, press the **TITLE** button to change the display mode.



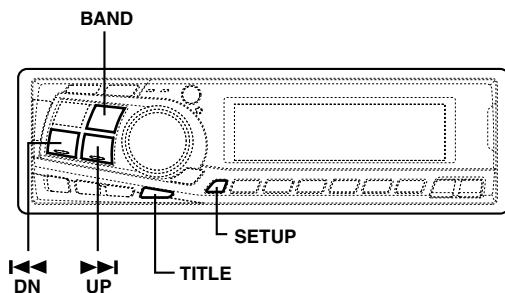
*1: You can display this only when the broadcasting station supplies the Service Component Label. Otherwise, “NO COMPO” is displayed.

*2: • If you set “SCR AUTO” for “Scroll Setting,” the character information that is sent from the broadcasting station is scrolled when it displayed.

If you are set to “SCR MANUAL” while displaying the Dynamic Label and press and hold the **TITLE** button for at least 3 seconds, you can scroll the character information once.

- “NO TEXT” is displayed when broadcasting stations which contain no Dynamic Label are received. However, when a station is waiting for its reception, “WAITING” is displayed.

DAB Operation



Displaying the Regional Label

The regional name of the ensemble that you are listening is displayed.

- 1 Press **TITLE** button for at least 3 seconds. "REGIONAL" is displayed for 2 seconds, and then the Regional Label is displayed for 5 seconds, and then you return to the display that you selected with the steps described under the section "Changing the Display Mode" on page 25.

NOTES

- If no Regional Label is received, "NO REGON" is displayed.
- When you are in the Dynamic Label mode, you cannot display the Regional Label.

Receiving Announcement Information of DAB Local Stations

- 1 Press the **SETUP** button for at least 3 seconds.
- 2 Press the **◀ DN** or **▶ UP** button to select "DAB REG."
- 3 Press the **BAND** button to select ON or OFF for DAB REG.
ON: You can automatically receive the announcement interrupt of the regional you are currently in.
OFF: Announcement interrupt is valid for all regions.
- 4 Press **SETUP** button to return to the normal mode.

Setting for Automatic Change from DAB to RDS

When the DAB reception is poor, you can set this selection ON to automatically change to the RDS station (a station that can be received) within the same broadcasting station until good reception is achieved. You can switch this for voice only (except Service label/ Dynamic label display). The display and operation remain as for DAB.

- 1 Press the **SETUP** button for at least 3 seconds.
- 2 Press the **◀ DN** or **▶ UP** button to select "R/D SW."
- 3 Press the **BAND** button to select either ON or OFF.
- 4 Press the **SETUP** button to return to the normal mode.

NOTE

When reception is being changed from DAB to RDS, the DAB indicator blinks.

Setting ON/OFF for DRC (Dynamic Range Control)

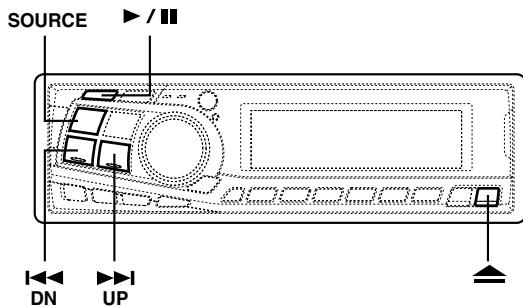
If you set this ON when receiving the sound of a wide Dynamic Range, the DRC (Dynamic Range Control) gain increases when the source sound is small, and the DRC (Dynamic Range Control) gain decreases when the source sound is large, making the Dynamic Range narrower to give you better and more comfortable sound even in the vehicle that produces a large noise.

- 1 Press the **SETUP** button for at least 3 seconds.
- 2 Press the **◀ DN** or **▶ UP** button to select "DAB DRC."
- 3 Press the **BAND** button to select either ON or OFF.
- 4 Press the **SETUP** button to return to the normal mode.

NOTE

When a radio programme is set to ON, sound other than what you previously set may be produced depending on the broadcast. In this case, turn the programme OFF.

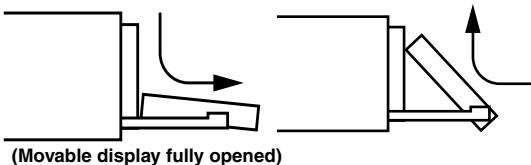
CD Player Operation



Opening and Closing the Movable display

1 Press the Δ button.

The movable display will open.



(Movable display fully opened)

To close the movable display, press the Δ button again. The movable display will close.

NOTES

- Do not apply shock to the movable display when it is open as it may result in malfunction of the unit.
- The display may be dim during low temperatures and immediately after turning on the power. The brightness will return to normal as time elapses.
- The display will stop at the set angle when closing.

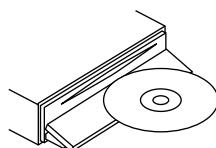
CAUTION

Keep hands (or any other object) away from the display while it is opening or closing to avoid damage or injury. The back of the movable display will get very warm under normal operating conditions. This is not a malfunction. Do not touch.

Playback

1 Press the Δ button.

The movable display will open.



Insert a disc with the label side facing up.

2 Insert a disc with the label side facing up.
The disc will be pulled into the unit automatically. The movable display will close and playback will begin. When a disc is already inserted, press the **SOURCE** button to switch to the CD (DISC) mode.

The mode will change every time the button is pressed.

→ TUNER → CD (DISC) → CD CHANGER*

(*Only when the CD changer is connected)

3 To pause playback, press the \triangleright/II button. Pressing the \triangleright/II button again will resume playback.

4 To eject the disc, press the Δ button.

NOTES

- If the CD does not eject, press and hold the Δ button for more than 3 seconds while the movable display is still open.
- Do not touch the CD while it is loading or ejecting, as a malfunction may result.
- Some discs require more time before playback starts. This is normal.

Music Sensor (Skip)

1 Momentarily press the $\ll\text{DN}$ button once during CD play to return to the beginning of the current track. If you wish to access a track further back, repeatedly press until you reach the desired track.

Press the $\gg\text{UP}$ button once to advance to the beginning of the next track. If you wish to access a track further ahead, press repeatedly until the desired track is reached.

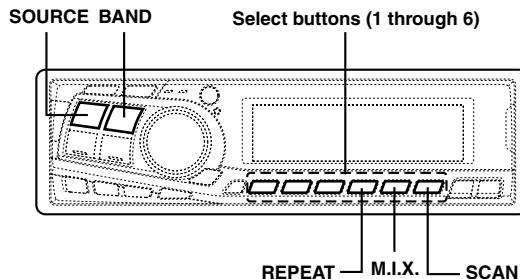
NOTE

The music sensor feature is functional in the play or pause mode.

Fast Forward and Backward

1 Press and hold the $\ll\text{DN}$ or $\gg\text{UP}$ button to quickly move backward or forward until you reach the desired section of the track.

CD Player Operation



Repeat Play

1 Press the **REPEAT** button to play back repeatedly the track being played.
The track will be played repeatedly.

Press the **REPEAT** button again and select OFF to deactivate the repeat play.

NOTES

- If a CD Changer is connected and the RPT ALL mode is selected, the unit repeatedly plays back all tracks on the disc selected.

→ RPT → RPT ALL → (off)

- In case a 6-disc CD changer is connected:
In CD changer mode, press the "F" button to illuminate the "FUNC" indicator and go to step 1 within 5 seconds.
- In case a 12-disc CD changer is connected:
In changer mode, press the "F" button twice to illuminate the "FUNC" indicator and go to step 1 within 5 seconds.

M.I.X. (Random Play)

1 Press the **M.I.X.** button in the play or pause mode.
The tracks on the disc will be played back in a random sequence.

To cancel M.I.X. play, press the **M.I.X.** button again to turn off the M.I.X.

NOTES

- If a CD Changer equipped with the ALL M.I.X. function is connected, ALL M.I.X. will also be selectable.
In this mode, the tracks on all the CDs in the current magazine will be included in the random playback sequence.

→ M.I.X. → ALL M.I.X. → (off)

- In case a 6-disc CD changer is connected:
In CD changer mode, press the "F" button to illuminate the "FUNC" indicator and go to step 1 within 5 seconds.
- In case a 12-disc CD changer is connected:
In CD changer mode, press the "F" button twice to illuminate the "FUNC" indicator and go to step 1 within 5 seconds.

Scanning Programmes

1 Press the **SCAN** button to activate the Scan mode.
The first 10 seconds of each track will be played back in succession.

To stop scanning, press the **SCAN** button to deactivate the Scan mode.

NOTES

- In case a 6-disc CD changer is connected:
In CD changer mode, press the "F" button to illuminate the "FUNC" indicator and go to step 1 within 5 seconds.
- In case a 12-disc CD changer is connected:
In CD changer mode, press the "F" button twice to illuminate the "FUNC" indicator and go to step 1 within 5 seconds.

Controlling CD Changer (Optional)

An optional 6-disc or 12-disc CD Changer may be connected to the DVA-7996R if it is Ai-NET compatible. With a CD Changer connected to the Ai-NET input of the DVA-7996R, the CD Changer will be controllable from the DVA-7996R.

Using the KCA-400C (Multi-Changer Switching device) or the KCA-410C (Versatile Link Terminal) multiple changers can be controlled by the DVA-7996R.

See the Multi-Changer Selection section on page 29 for selecting the CD Changers.

NOTES

- The controls on the DVA-7996R for CD Changer operation are operative only when a CD Changer is connected.
- The "changer" indicator illuminates when a CD changer is connected.
- The DVD changer (optional) is controllable from the DVA-7996R as well as the CD changer.
- If a changer compatible with MP3 is connected, the changer is also controllable from the DVA-7996R of the built-in MP3.

1 Press the **SOURCE** button to activate the CHANGER mode. The display shows the disc number and track number.

NOTES

- The source indicator varies depending on the connected source.
- Press the **BAND** button to switch the Disc mode in the CD/Changer mode.

2 Press the Disc **Select buttons (1 through 6)** corresponding to one of the discs loaded in the CD Changer. The selected disc number appears in the display and CD playback starts.

NOTES

- After selecting the desired disc, you can operate in the same way as for the DVA-7996R CD player.
For details, please see the CD Operation section.
- If the "FUNC" indicator is illuminated the Disc Select buttons become nonfunctional.

When a 12-disc CD Changer is connected:

To select discs numbered from 1 to 6, the procedure is the same as for the 6-disc CD Changer. To select discs numbered from 7 to 12, first press the “F” button. This changes the “D” indicator to “d.” Then press the desired Preset button. With the “F” button activated, the Preset buttons 1 to 6 will represent discs 7 to 12 respectively.

Multi-Changer Selection

Alpine's Ai-NET system will support up to 6 CD Changers. When operating two or more changers, the KCA-400C (Multi-Changer Switching device) must be used. If you use 1 Switching device, you can connect up to 4 CD Changers. If you use 2 Switching devices, you can connect up to 6 CD Changers. When using KCA-410C (Versatile Link Terminal), you can connect two changers and two external outputs (AUX).

- 1** Press the **SOURCE** button on the DVA-7996R to activate the CD Changer mode.
— — — — —
Alternatively, press the **SOURCE** button on the Remote Control (RUE-4191) to activate the CD Changer mode.
- 2** Press the **BAND** button on the DVA-7996R or the RUE-4191 to activate the CD Changer Selection mode.

- 3** The CD Changer Selection mode remains active for 8 seconds after step 2 is performed. Press the **BAND** button until the desired CD Changer indicator appears on the display.

NOTE

If the selected CD Changer is not connected, the display will show “NO CHGR.”

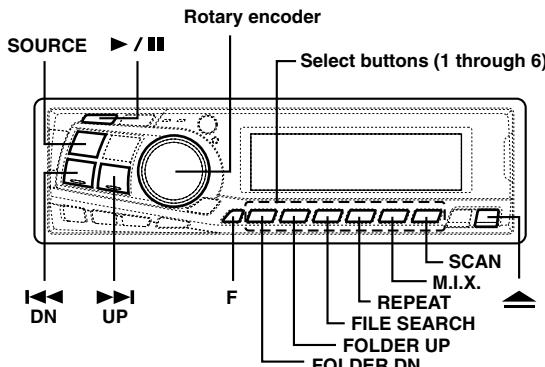
— — — — —
Alternatively press the **BAND** button on the Remote Control until the desired changer indicator appears on the display.

- 4** To operate the selected changer, see “CD Player Operation” section.

NOTE

For further details about the external input (AUX) when using KCA-410C, see “Setting the AUX Mode (V-Link)” on page 17.

MP3 Operation



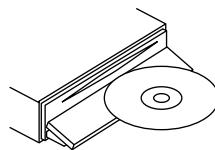
Playing MP3 Files

The DVA-7996R will play back MP3 files stored on CD-ROMs, CD-Rs, and CD-RWs. The format used must be compliant with ISO 9660 level 1 or level 2.

For further information about playing or storing MP3 files, refer to pages 32 - 33 before using the unit.

1 Press the Δ button.

The movable display will open.



Insert a disc containing an MP3 file with the label side facing up.

2 The disc will be pulled into the unit automatically. The movable display will close and playback will begin. When a disc is already inserted, press the **SOURCE** button to switch to the CD (DISC) mode.

The mode will change every time the button is pressed.

→TUNER → CD (DISC) → CD CHANGER*

(*Only when the CD changer is connected)

3 To pause playback, press the \triangleright/\parallel button.

Pressing the \triangleright/\parallel button again will resume playback.

4 To eject the disc, press the Δ button.

NOTES

- The unit can play discs containing both audio data and MP3 data.
- The MP3 indicator is lit during MP3 playback.
- The track display for CD audio data playback is the track numbers recorded on the disc.
- For MP3 discs, some time may be required until playback starts.
- If the CD does not eject, press Δ button again for more than 3 seconds with the movable display open.

Playing MP3 Files with the CD Changer (Optional)

If you connect a changer compatible with MP3, you can play CD-ROMs, CD-Rs, and CD-RWs containing MP3 files on the DVA-7996R.

1 Press the **SOURCE** button to switch to the MP3 Changer mode. Folder Number, File Number and Elapsed Time are displayed.

2 Press the Disc **Select buttons (1 through 6)** corresponding to one of the discs loaded in the CD Changer.

3 To pause playback, press the \triangleright/\parallel button. Pressing the \triangleright/\parallel button again will resume playback.

NOTE

The unit can play discs containing both audio data and MP3 data.

Music Sensor (Skip)

1 Momentarily press the $\ll\text{DN}$ button once during CD play to return to the beginning of the current file. If you wish to access the beginning of a file further back, repeatedly press until you reach the desired file.

Press the $\gg\text{UP}$ button once to advance to the beginning of the next file. If you wish to access the beginning of a file further ahead, press repeatedly until the desired file is reached.

NOTE

The music sensor feature is functional in the play or pause mode.

Fast Forward and Backward

1 Press and hold the $\ll\text{DN}$ or $\gg\text{UP}$ button to quickly move backward or forward until you reach the desired section of the file.

Selecting Folders

- 1 Press the **F** button so that the “FUNC” indicator blinks.
- 2 Press the **FOLDER DN** or **FOLDER UP** button to select the folder.

NOTE

If a CD changer applicable to MP3 is connected:
In CD changer mode, press the “F” button twice to blink the “FUNC” indicator and go to step 1 within 5 seconds.

File Search

You can locate all the files on a disc and play them.

- 1 Press the **F** button so that the “FUNC” indicator blinks.
- 2 Press the **FILE SEARCH** button during playback.
The unit switches to File Search mode.
- 3 Turn the **Rotary encoder** to select the desired file.
- 4 Press the **Rotary encoder** to execute the setting.
The selected file starts to play.

NOTES

- During search, press the **FILE SEARCH** button to cancel the File Search mode.
- If a CD changer applicable to MP3 is connected:
In CD changer mode, press the “F” button twice to blink the “FUNC” indicator and go to step 1 within 5 seconds.

Repeat Play

- 1 Press the **REPEAT** button to play back repeatedly the file being played.

The file will be played repeatedly.

Press the **REPEAT** button again and select OFF to deactivate the repeat play.

NOTES

- If a CD changer applicable to MP3 is connected and the **RPT ALL** mode is selected, the unit repeatedly plays back all files on the selected disc.

→ RPT → RPT ALL → (off) →

- When you select “**FOLDER**” and set to **RPT ALL** in the “Setting the Range of MP3 File Selection” section on page 32, the files will be repeatedly played back.
- If a CD changer applicable to MP3 is connected:
In CD changer mode, press the “F” button once to illuminate the “FUNC” indicator and go to step 1 within 5 seconds.

M.I.X. (Random Play)

- 1 Press the **M.I.X.** button in the play or pause mode.
The files on the disc will be played back in a random sequence.

To cancel M.I.X. play, press the **M.I.X.** button again to turn off the M.I.X.

NOTES

- When you select “**FOLDER**” and set to **M.I.X.** in the “Setting the Range of MP3 File Selection” section on page 32, the Files in the Folder are played back in random sequence. After all the files have been played back, play does not shift to the next Folder.
- In case an MP3 compatible CD changer is connected:
In CD changer mode, press the “F” button once to illuminate the “FUNC” indicator and go to step 1 within 5 seconds.

Scanning Programmes

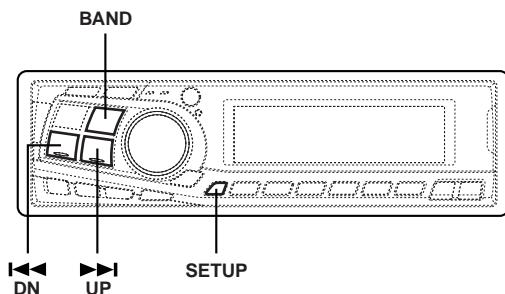
- 1 Press the **SCAN** button to activate the Scan mode.
The first 10 seconds of each file will be played back in succession.

To stop scanning, press the **SCAN** button and deactivate the Scan mode.

NOTES

- When you select “**FOLDER**” in the “Setting the Range of MP3 File Selection” section on page 32, the first 10 seconds of each File in the Folder will be played back.
- If a CD changer applicable to MP3 is connected:
In CD changer mode, press the “F” button once to illuminate the “FUNC” indicator and go to step 1 within 5 seconds.

MP3 Operation



Setting the Range of MP3 File Selection

You can set the range of MP3 file selection to "entire disc contents" or "folder contents only."

- 1 Press and hold the **SETUP** button for at least 3 seconds.
- 2 Press the **◀ DN** or **▶ UP** button to select DISC/ FOLDER (file selection range).
- 3 Press the **BAND** button to toggle the mode between DISC ALL and FOLDER.
 - DISC ALL : plays all the files on one disc
 - FOLDER : plays files in the selected folder only.
- 4 Press the **SETUP** button to set the selected mode.

Playing MP3 Data

The unit can be set to play only the audio data ("MixDisc CD") or only the MP3 files ("MixDiscMP3") on discs containing both audio data and MP3 data. (When using discs containing both audio data and MP3 data)

- 1 Press and hold the **SETUP** button for at least 3 seconds.
- 2 Press the **◀ DN** or **▶ UP** button to select "MixDisc CD/MP3."

- 3 Press the **BAND** button to toggle the mode between MixDisc CD and MixDiscMP3.

- MixDisc CD: The unit can be set to play only the audio data on discs containing both audio data and MP3 data.
- MixDiscMP3: Only the MP3 files on discs containing both audio data and MP3 data.

- 4 Press the **SETUP** button to return to normal mode.

NOTES

- The initial setting at the factory is MixDisc CD.
- Establish this setting before loading the disc. If the disc is already loaded, perform either of the following to decide the setting.
 - Turn OFF the main unit
 - Disc eject
 - Switch source

About MP3

CAUTION

Except for personal enjoyment, duplicating audio data (including MP3 data) or distributing, transferring, or copying it, whether for free or for a fee, without the permission of the copyright holder is strictly prohibited by the Copyright Act and by international treaty.

• What is MP3?

MP3, whose official name is "MPEG Audio Layer 3", is a compression standard prescribed by the ISO, the International Standardization Organization and MPEG which is a joint activity institution of the IEC.

MP3 files contain compressed audio data. MP3 encoding is capable of compressing the audio data at extremely high ratios shrinking music files by as much as one-tenth their original size. This is achieved while still maintaining near CD quality. The MP3 format realizes such high compression ratios by eliminating the sounds that are either inaudible to the human ear or masked by other sounds.

• Method for creating MP3 files

The software used to create MP3 files is widely sold or free from various sources. For details on creating MP3 files, refer to the user's manual for that software.

The MP3 files that can be played back by this device have the file extension "mp3". Files with no extension can not be played back.

• Supported playback sampling rates and bit rates

Sampling rates: 32 kHz - 48 kHz, bit rates: 32 - 320 kbps
Note that for sampling rates such as 22.05 kHz, this device's frame display (Page 13) may not display correctly.

• ID3 tags

This device supports ID3 tag v1.

If ID3 tag data is in an MP3 file, this device can display the title (track title), artist name, and album name ID3 tag data.

This device can only display single-byte alphanumeric characters and the underscore. For non-supported characters, "NO SUPPORT" is displayed.

- **Producing MP3 discs**

MP3 files are prepared, then written to a CD-R or CD-RW using CD-R writing software. A disc can hold up to 255 files/folders (including Root Folders).

- **Media supported**

The media that this device can play back are CD-ROMs, CD-Rs, and CD-RWs.

- **Corresponding File Systems**

This device supports discs formatted with ISO9660 Level 1 or Level 2.

Under the ISO9660 standard,
there are some restrictions to remember.

The maximum nested folder depth is 8 (including the root directory). File/folder names are limited to 31 characters (including the extension).

Valid characters for folder/file names are letters A-Z (all caps), numbers 0-9, and '_' (underscore).

This device also can play back discs in Joliet, and other standards that conform to ISO9660. However, sometimes the file names, folder names, etc. are not displayed correctly.

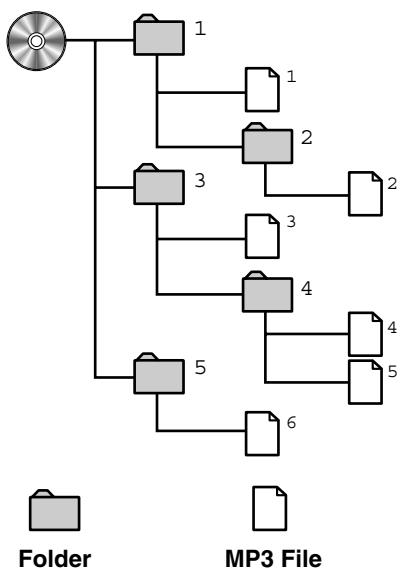
- **Formats supported**

This device supports CD-ROM XA, Mixed Mode CD, Enhanced CD (CD-Extra) and Multi-Session.

This device can not correctly play back discs recorded with Track At Once or packet writing.

- **Order of tracks**

The unit plays the files in the order that the writing software writes them. Therefore, the playing order may not be the same as the order you input. The playback order of the folders and files is as follows.



Terminology

Bit rate

This is the "sound" compression rate specified for encoding. The higher the bit rate, the higher the sound quality, but also the larger the files.

Sampling rate

This value shows how many times per second the data is sampled (recorded). For example, music CDs use a sampling rate of 44.1 kHz, so the sound level is sampled (recorded) 44,100 times per second. The higher the sampling rate, the higher the sound quality, but also the larger the volume of data.

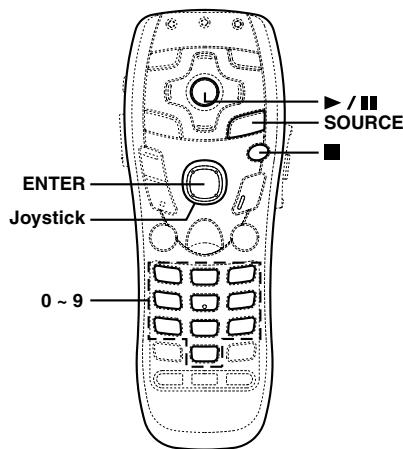
Encoding

Converting music CDs, WAVE (AIFF) files, and other sound files into the specified audio compression format.

ID3 tag

Song information such as track titles, artist names, album names, etc., written into MP3 files.

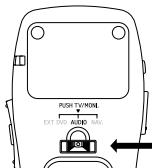
DVD/Video CD Operation



- DVD and video CD operations can be performed from both the remote control unit and the main unit (except for some operations). This section mainly describes operations from the remote control unit. For instructions on operating using the buttons on the main unit, see page 48.
- A separately sold monitor is required to view DVDs and video CDs.
- Play Position Memory Function:
Even if you turn power off or switch the Ignition Key to OFF during playback or change the source, playback will continue from the point where playback stopped when the power is turned ON again.
- The DVA-7996R distinguishes the recording type of the loaded disc, and switches the picture output signal (NTSC or PAL) automatically. For how to switch NTSC/PAL on the connected monitor, see the instruction manual of the monitor.



- When using the remote control unit
To operate a DVD or video CD, set the selector switch on the rear of the remote control unit to the "AUDIO" side.



• Reading this manual

These indicate the discs for which the function can be used.

Stopping playback (PRE-STOP)

Press the stop button during playback to stop playback. That position is stored in the memory.

- 1 Press the ■ button once during playback.
"PRE-STOP" is displayed.

...DVDs
 ...Video CDs

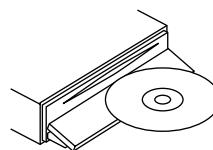
Playing DVD/Video CD



Caution

- With some DVDs, certain operations are disabled. Such operations are not possible on such DVDs.
- The DVD functions described in this manual are not supported by all DVDs. See the individual DVDs instructions for details on the features supported.
- Fingerprints on a disc may adversely affect playback. If a problem occurs, remove the disc and check for fingerprints on the playback side. Clean the disc if necessary.
- When using the remote control, be careful to press one button at time. Pressing multiple buttons at the same time may cause erroneous operation.
- Even if you switch the power or the Ignition Key to OFF during playback or change the source, playback will continue from the point where it stopped when the power is turned ON again.
- Operation may not be accepted depending on the type of disc and the playback conditions. At such a time the following mark is displayed on the monitor screen: Ø

- 1 Press the ▲ button on the main unit.
The movable display will open.



Insert a disc with the label side facing up.

- 2 Insert a disc with the label side facing up.
The disc will be pulled into the unit automatically.
The movable display will close and playback will begin.
When a disc is already inserted, press the **SOURCE** button to switch to the disc mode.
The mode will change every time the button is pressed.

3 To eject the disc, press the **▲** button on the main unit.

NOTES

- If the disc does not eject, press and hold the **▲** button again for more than 3 seconds with the movable display open.
- The reverse side of a double-sided DVD will not be played automatically.
Remove the disc, turn it over, and reinsert it.
- DO NOT insert discs containing maps for the navigation system. Doing so could result in damage.
- “DISC ERROR” appears on the monitor display if a non-compatible disc is loaded, if the disc is loaded upside-down or if the disc is scratched or dirty. Press the **▲** button on the main unit to open the display and remove the disc.

• **If a menu screen appears**

(DVD) (Video CD)

On DVDs and video CDs with playback control (PBC), menu screens may appear automatically. If this happens, perform the operation described below to start playback.

NOTE

For many discs, the menu screen can also be displayed by pressing the MENU or TITLE button (for at least 2 seconds).

DVD menu

Use the **Joystick** to select the desired item, then press the **ENTER** button.

NOTE

For some discs it is possible to select items directly from the menu screen using the number keys (“0” to “9”).

Video CD menu

Use the number keys (“0” to “9”) to select the desired number.

NOTE

The menu screen does not appear when the PBC function is turned off. If this is the case, press the MENU button to turn on the PBC function.

Stopping playback (PRE-STOP)

(DVD)
(Video CD)

Press the stop button during playback to stop playback. That position is stored in the memory.

- 1 Press the **■** button once during playback. “PRE-STOP” is displayed.
- 2 Press the **▶/■** button in the PRE-STOP mode. Playback starts from the position at which it was stopped.

NOTE

For some discs, the position at which playback was stopped may not be accurate.

Stopping playback

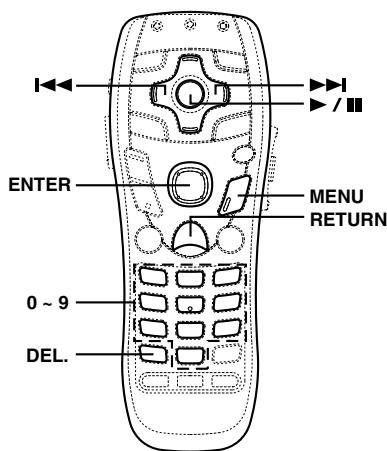
(DVD)
(Video CD)

- 1 Press the **■** button twice during playback. “STOP” is displayed, and playback stops.

NOTES

- Playback stops even when the **■** button is pressed for more than 2 seconds.
- Playback starts from the beginning when **▶/■** button is pressed while playback is stopped.

DVD/Video CD Operation



Fast-forwarding/ fast-reversing

(DVD)
(Video CD)

- 1 During playback, press and hold the ▶◀ (fast-reverse) or ▶▶ (fast-forward) button. When pressed for more than 1 second, the disc is forwarded/reversed at double speed. When held in 5 more seconds, the disc is forwarded/reversed at 8 times the normal speed.
- 2 Release the ▶◀ or ▶▶ button to return to normal playback.

NOTES

- No sound or subtitles are played during fast-forwarding/fast-reversing.
- For DVDs and video CDs with playback control (PBC), the menu screen may reappear during fast-forwarding/fast-reversing.

Finding the beginnings of chapters or tracks

(DVD)
(Video CD)

- 1 During playback, press the ▶◀ or ▶▶ button. The chapter/track switches each time the button is pressed, and playback of the selected chapter/track starts.

▶▶: Press this to start playback from the beginning of the following chapter or track.
▶◀: Press this to start playback from the beginning of the current chapter or track.

NOTE

Some DVDs do not have chapters.

Supplementary explanation

“Chapters” are divisions of movies or musical selections on DVDs.
“Tracks” are divisions of movies or musical selections on video and music CDs.

Playing still frames (pausing)

(DVD)
(Video CD)

- 1 During playback, press the ▶▶/II button once.
- 2 Press the ▶▶/II button to resume playback.

NOTES

- No sound is played during the still frame mode.
- The image or sound may stop temporarily when playback starts from the pause mode. This is not a malfunction.

Frame-by-frame playback

(DVD)
(Video CD)

- 1 In the pause mode, press the ▶▶ button. The picture advances by one frame each time the button is pressed.
- 2 Press the ▶▶/II button to resume normal playback.

NOTE

No sound is played during frame-by-frame playback.

Slow motion playback

(DVD)
(Video CD)

- 1 When ▶▶ is pressed and held in while in the pause mode, the 1/8th speed slow motion playback mode is set. When held in for 5 more seconds, the slow motion speed switches to 1/2 the normal speed.
- 2 Release the ▶▶ button to pause, and press the ▶▶/II button to playback.

NOTES

- No sound is played during slow motion playback.
- Back slow motion playback is not available.
- 1/2, 1/8 are approximate speeds. The actual speed differs from disc to disc.

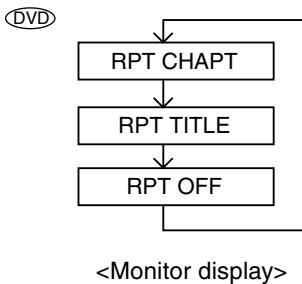
Chapter/track/title repeat playback



Use this function to play the disc's titles, chapters or tracks repeatedly.

- 1 During playback, press the **REPEAT** button on the main unit.

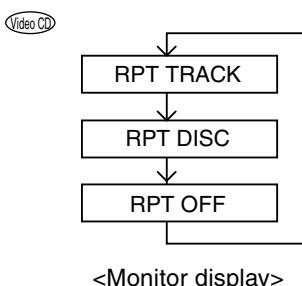
The repeat mode switches each time the button is pressed.



The chapter is played repeatedly.

The title is played repeatedly.

The mode returns to normal playback.
(setting at factory shipping)



The track is played repeatedly.

The entire disc is played repeatedly.

(setting at factory shipping)

NOTES

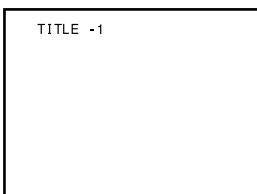
- The track/disc repeat modes cannot be used on video CDs with playback control (PBC). Press the **MENU** button to turn the PBC function off.
- For some discs it is not possible to switch the repeat mode.

Searching by title number



Use this function to easily find positions on the DVD using the DVD's title.

- 1 When the playback stops, input the number of the title you want to play using the number keys ("0" to "9").



(The monitor display when title number 1 is input.)

NOTES

- This function cannot be used on discs on which no chapter numbers are recorded.
- Press the **DEL** button to delete the last digit in the title number. Press and hold the **DEL** button for at least 2 seconds to clear all title numbers.
- Press the **RETURN** button to cancel the title search mode and resume normal playback.
- The playback starts automatically for two digit title numbers even if the **ENTER** button in procedure 2 is not pressed.
- Playback starts from the beginning of the chapter/track number in the state of PRE-STOP.

- 2 Press the **ENTER** button.

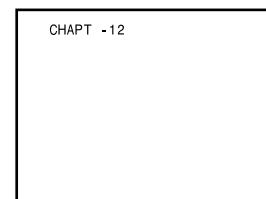
Playback starts from the selected title number.

Searching directly by chapter or track number



Use this function to easily move to the beginnings of the chapters or tracks on the disc.

- 1 During playback, input the number of the chapter or track you want to play using the number keys ("0" to "9").



(The monitor display when chapter 12 is input.)

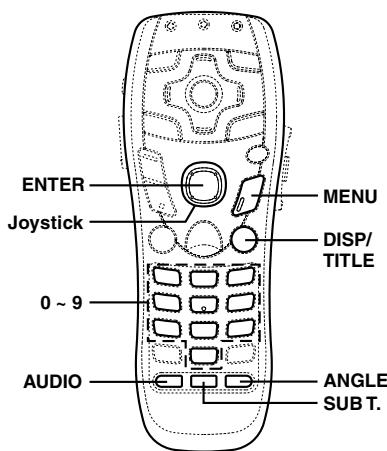
- 2 Press the **ENTER** button.

Playback starts from the selected chapter or track.

NOTES

- This function cannot be used on discs on which no chapter numbers are recorded.
- If the chapter number is a 3-digit number, playback starts automatically even if the **ENTER** button is not pressed at step 2.
- Press the **DEL** button to delete the last digit in the chapter/track number. Press and hold the **DEL** button for at least 2 seconds to clear "Chapter" and "Track" numbers.
- Press the **RETURN** button to cancel the chapter/track search mode and resume normal playback.
- With video discs containing playback control (PBC), the "searching directly by track number" function is not available while PBC is ON. Press the **MENU** button to turn the PBC function off.
- If the chapter/track number is known, you can search directly using the number keys ("0" to "9") during playback mode, PRE-STOP mode, etc.

DVD/Video CD Operation



- For some discs, it is not possible to switch the audio language during playback. In this case, select audio language on the disc menu.
- Some time may be required for the audio language to change.

• Video CDs with multiplex audio

- 1 During playback, press and hold the **AUDIO** button.

The combination of the left and right channels changes each time the button is pressed.

→ LL → RR → LR

Switching the angle

(DVD)

With DVDs on which images photographed from multiple angles are recorded, the angle can be switched during playback.

- 1 During playback, press and hold the **ANGLE** button.
The angle switches between the angles recorded on the disc each time the button is pressed.

NOTES

- Some time may be required for the angle to change.
- Depending on the disc, the angle may switch in one of two ways.
 - Seamless: The angle switches smoothly.
 - Non-seamless: When the angle is switched, a still picture is displayed first, after which the angle switches.
- This operation cannot be performed using the **ANGLE▲▼** button on the main unit.

Switching the audio language

(DVD)
(Video CD)

On DVDs including multiple audio modes or multiple audio languages, the audio language can be switched during playback.

- 1 During playback, press and hold the **AUDIO** button.
The sound switches between the different audio modes recorded on the disc each time the button is pressed.

NOTES

- The language selected with the default settings is set when the power is turned on or the disc is replaced. If the disc does not include that language, the disc's default language is set.

Switching the subtitles (subtitle language)

(DVD)

With DVDs on which multiple subtitle languages are recorded, the subtitle language can be switched during playback; moreover, subtitles can be hidden.

- 1 During playback, press and hold the **SUB T.** button.
The subtitle switches between the languages recorded on the disc each time the button is pressed; moreover, the subtitle is turned OFF.

NOTES

- Some time may be required for the subtitle language to change.
- For some discs, it is not possible to switch the subtitles (subtitle language) during playback. In this case, make the selection from the disc menu.
- The language selected with the default settings is set when the power is turned on or the disc is replaced. If the disc does not include that language, the disc's default language is set.
- For some discs, the subtitles will be displayed even when this is set to off.

• Switching from the disc menu

Tips

For some discs, the audio language, angle and subtitles can be switched from the disc menu.

- 1 Press the **MENU** or **TITLE** button (for at least 2 seconds), select the item, then press the **ENTER** button.

- 2 Use the **Joystick** to select the language or angle, then press the **ENTER** button.

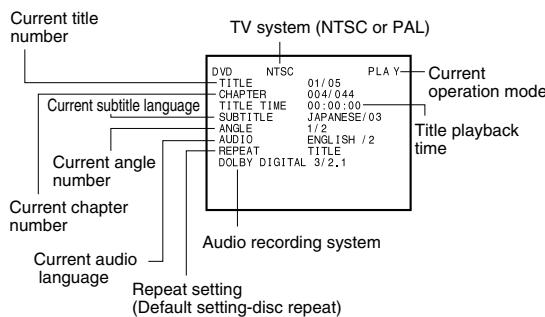
(For some discs, they can be selected using the number keys ("0" to "9") while the language or the angle menu is displayed.)

Displaying the disc status and changing the settings



Use the procedure described below to display the status (title number, chapter number, etc.) of the currently playing DVD on the monitor screen. Moreover, the settings can be changed.

- 1 During playback, press the **DISP** button.
The playback status is displayed.



- 2 To change the setting ...
Move the **Joystick** up or down to select the item you want to set, then move the **Joystick** left or right to change the setting.
- 3 Press the **ENTER** button. The setting is entered.

NOTE

For some discs, the setting may be entered after the operation in step 2.

- 4 Press the **DISP** button once more to turn the display off.

NOTES

- For some discs it may not be possible to change the setting.
- The "TITLE TIME" setting cannot be changed.
- This operation cannot be performed using the **DISP** button on the main unit.

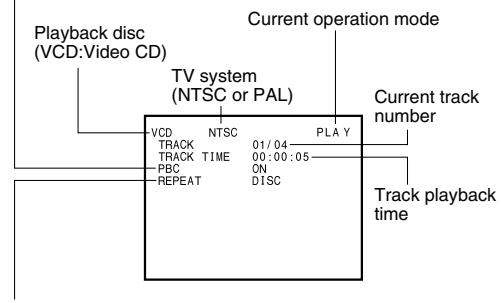
Displaying the disc status and changing the settings



Use the procedure described below to obtain an on-screen display of the status (track number, etc.) of the currently playing video CD or music CD. Additionally, the settings can also be changed from this display.

- 1 During playback, press the **DISP** button.
The playback status is displayed.

Playback control (PBC)
ON/OFF (For video CDs only)



Repeat setting (Default setting-disc repeat)

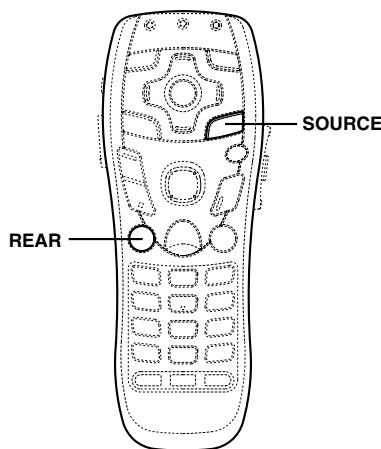
- 2 To change the setting ...
Move the **Joystick** up or down to select the item you want to set, then move the **Joystick** left or right to change the setting.
- 3 Press the **ENTER** button. The setting is entered.

NOTES

- When PBC is turned on, the setting cannot be changed. Press the **MUTE** button to turn PBC off.
- This operation cannot be performed using the **DISP** button on the main unit.

- 4 Press the **DISP** button once more to turn the display off.

DVD/Video CD Operation



Rear DVD function

When the rear DVD function is set to "ON", it is possible to play different sources in the front and rear seats of the vehicle. For example, the riders in the front seat can listen to the radio or another audio source while a rider in the rear views a DVD using a separately sold rear monitor and headphones.

- 1 To view from the rear monitor, load the DVD or video CD into the main unit.
- 2 Press the **REAR** button to switch the rear DVD function on and off.
When turned on, the REAR DVD indicator on the audio display lights.

When turned on:

Simultaneous playback/independent operation for the front and rear seats is enabled.
The front audio source operations are performed using the DVA-7996R's front panel switches. The DVD playback operations for the rear monitor are performed with the remote control unit.

- 3 Press the **SOURCE** button to select the audio source to be played in the front.

NOTES

- This function cannot be set if no DVD or video CD is loaded.
- When the rear DVD function setting is turned on and the remote control sensor selector is set to "REM.REAR", some remote control operations (POWER ON/OFF, VOLUME UP/DN, MUTE, SOURCE, ANGLE UP/DN, A. PROC, BAND) cannot be performed.

- The volume of any add-on displays (rear monitor, etc.) cannot be adjusted from the DVA-7996R. Adjust the volume on the display itself. In addition, its sound cannot be muted.
- The function for external interruption of the sound of the rear monitor (from the navigation system, for example) cannot be used when the rear DVD function setting is turned on.
- When the fader is adjusted while the rear DVD function setting is turned on, that adjustment value is stored in the memory. When the rear DVD function is turned on again, the value stored in the memory is set (only when our company's external processor is disconnected.).
- If you are listening to the FM, MW, LW (FM: near 107.95 kHz, MW: near 1539 kHz, LW: near 174 kHz) radio while the rear DVD function is set to ON, noises may be heard from the radio, but this is not a malfunction.

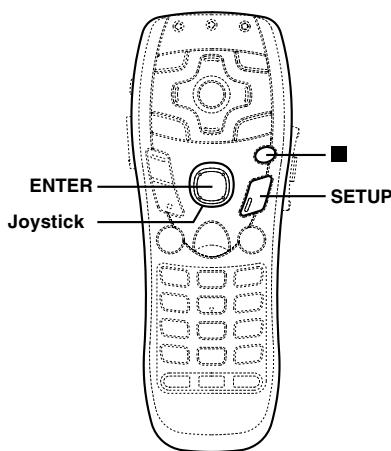
Remote control sensor selector

Use this selector to select whether to use the DVA-7996R's remote control sensor or the remote control sensor on the extension unit.

- 1 Press and hold the **REAR** button for at least 2 seconds to switch the remote control sensor.

REM.FRONT (to use the DVA-7996R's remote control sensor)
↓
REM.REAR (to use a separately sold remote control sensor unit or the monitor's remote control sensor)

DVD Default Settings (SETUP)



Changing the language settings

The audio language, subtitle language and menu language can be set according to your preferences.

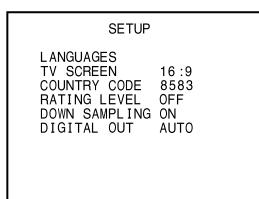
Once set, this becomes the default language. This function is convenient when you always want to listen in English. (Not all discs allow changing the default language. If not, the default language is set from the factory.)

NOTES

- When the settings are changed, the old settings are overwritten. Make a note of the current settings before making changes. The settings are not cleared even when the vehicle's battery is disconnected.
- To temporarily change the language of the current disc, either do so from the DVD menu or using the operation described in the section "Switching the audio language" (page 38).
- If you change the language setting when the disc is inside, the setting is decided with either of the following operation.
 - Disc eject
 - Turn OFF the main unit
 - Switch source
 - Turn OFF the ignition

1 In the stop mode, press and hold the **SETUP** button for at least 2 seconds.

The default setting menu appears.



NOTE

This operation cannot be performed in the PRE-STOP mode. When the disc is being played, press the ■ button twice to set the stop mode.

2 Use the Joystick to select "LANGUAGES", then press the **ENTER** button.

3 Use the **Joystick** to make the selection, then press the **ENTER** button.

AUDIO

Set the audio language produced from the speakers.

SUBTITLE

Set the language of the subtitles displayed on the screen.

MENU LANGUAGE

Set the language used for the menus (title menu, etc.).

LANGUAGES	
AUDIO	JAPANESE
SUBTITLE	AUTO
MENU	ENGLISH

4 Use the **Joystick** to select the desired language, then press the **ENTER** button.

The setup screen for the selected language is displayed.

AUDIO	
ENGLISH	HUNGARIAN
JAPANESE	ITALIAN
GERMAN	YIDDISH
SPANISH	PORTUGUESE
FRENCH	RUSSIAN
HINDI	CHINESE
ORIGINAL	OTHERS 0000

AUDIO
(audio languages)

SUBTITLE	
ENGLISH	HUNGARIAN
JAPANESE	ITALIAN
GERMAN	YIDDISH
SPANISH	PORTUGUESE
FRENCH	RUSSIAN
HINDI	CHINESE
AUTO	OTHERS 0000

SUBTITLE
(subtitle languages)

MENU LANGUAGE	
ENGLISH	HUNGARIAN
JAPANESE	ITALIAN
GERMAN	YIDDISH
SPANISH	PORTUGUESE
FRENCH	RUSSIAN
HINDI	CHINESE
AUTO	OTHERS 0000

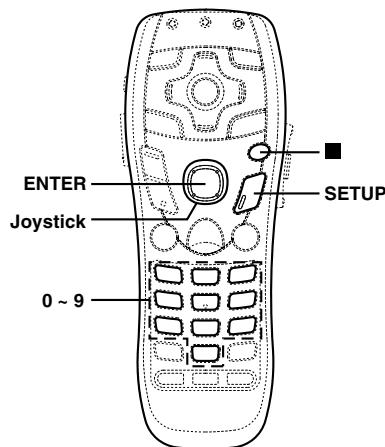
MENU LANGUAGE
(menu languages)

ORIGINAL

The disc is played with the audio language set as the priority language for the disc. (AUDIO only)

Continued

DVD Default Settings (SETUP)



AUTO

The disc is played with the subtitle language set as the priority language for the disc. (SUBTITLE/MENU LANGUAGE only)

OTHERS

Set this to play the disc with a language other than one of the languages displayed. Use the keys “0” to “9” to input the 4-digit language code, then press the **ENTER** button. For the language codes, refer to “List of language codes” (page 54).

NOTES

- If the disc does not include the selected language, the disc's default language is set.
- Languages set upon shipment from the factory:
Audio language : ORIGINAL
Subtitle language : AUTO
Menu language : AUTO
- Press the **RETURN** button to return to the previous screen.

5 Press and hold the **SETUP** button for at least 2 seconds.

The settings are stored and the set up mode is canceled.

NOTE

If you change the language setting when the disc is inside, the setting is decided with either of the following operation.

- Disc eject
- Turn OFF the main unit
- Switch source
- Turn OFF the ignition

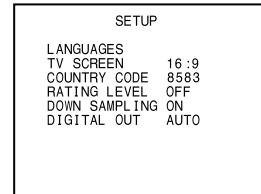
Changing the TV screen settings

Use the procedure described below to set the output screen according to the type of TV monitor being used.

NOTE

When the settings are changed, the old settings are overwritten. Make a note of the current settings before making changes. The settings are not cleared even when the vehicle's battery is disconnected.

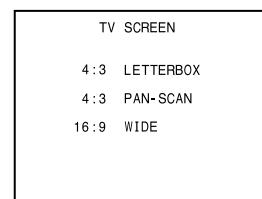
- 1 In the stop mode, press and hold the **SETUP** button for at least 2 seconds.
The default setting menu appears on the monitor screen.



NOTE

This operation cannot be performed in the PRE-STOP mode. When the disc is being played, press the ■ button twice to set the stop mode.

- 2 Use the **Joystick** to select “TV SCREEN”, then press the **ENTER** button.
- 3 Use the **Joystick** to make the selection, then press the **ENTER** button.



4:3 LETTERBOX

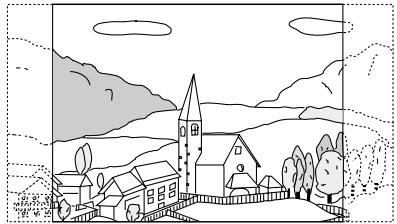
Select this when connected to a conventional 4:3 size (normal TV aspect ratio) monitor. There may be black stripes visible at the top and bottom of the screen (when playing a 16:9 size movie).

The width of these stripes will depend upon the original aspect ratio of the theatrical release of the movie.



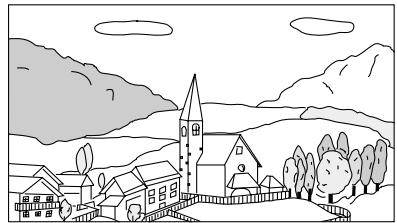
4:3 PAN-SCAN

Select this when connected to a conventional 4:3 size monitor. The picture will fill the entire TV screen. However, due to the mismatch in aspect ratio, parts of the movie at the extreme left and right sides will not be visible (when playing a 16:9 size movie).



16 : 9 WIDE

Select this when connected to a wide screen TV.
This is selected upon shipment from the factory.



NOTES

- For some discs, the picture may not be set to the selected screen size. (For details, refer to the explanation on the disc's jacket.)
- Press the RETURN button to return to the previous screen.

- 4 Press and hold the **SETUP** button for at least 2 seconds.

The settings are stored and the set up mode is canceled.

Changing the country code setting

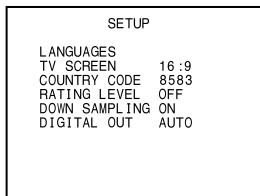
Set the country code when setting the rating level
(Parental lock).

NOTE

When the settings are changed, the old settings are overwritten. Make a note of the current settings before making changes. The settings are not cleared even when the vehicle's battery is disconnected.

- 1 In the stop mode, press and hold the **SETUP** button for at least 2 seconds.

The default setting menu appears on the monitor screen.

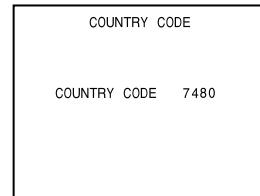


NOTE

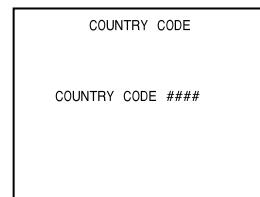
This operation cannot be performed in the PRE-STOP mode. When the disc is being played, press the ■ button twice to set the stop mode.

- 2 Use the **Joystick** to select "COUNTRY CODE", then press the **ENTER** button.

- 3 Press the **ENTER** button to reset the country code.



- 4 Use keys "0" to "9" to input the 4-digit country code, then press the **ENTER** button.



NOTES

- For the country codes, refer to "List of country codes" (Pages 55, 56).
- Can be erased one digit at a time each time the DEL button is pressed.
- Press the RETURN button to return to the previous screen.

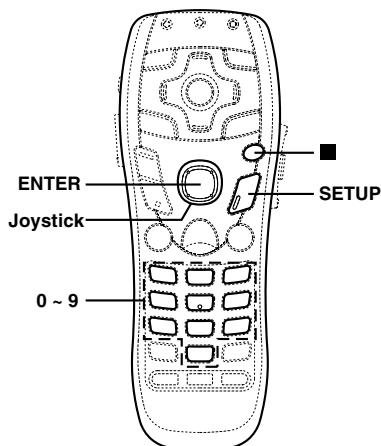
- 5 Press and hold the **SETUP** button for at least 2 seconds.

The settings are stored and the set up mode is canceled.

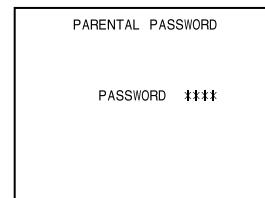


Operations for making the "DVD Default Settings (SETUP)" cannot be performed using the SETUP button on the main unit.

DVD Default Settings (SETUP)

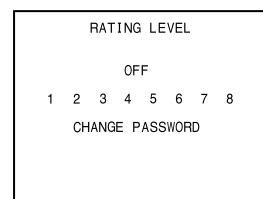


4 Use keys “0” to “9” to input the 4-digit password. The default password is 1111 upon shipment from the factory.



Input numbers are displayed “*”.

5 Press the **ENTER** button.

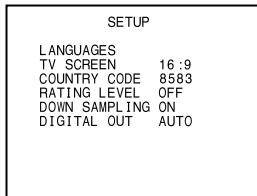


6 Use the **Joystick** to select the rating level, then press the **ENTER** button.
Select “OFF” to cancel the parental lock or if you do not want to set a rating level.
The higher the number, the higher the rating level.

NOTE

Press the **RETURN** button to return to the previous screen.

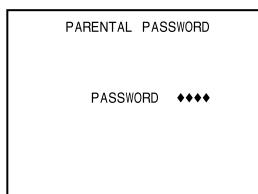
1 In the stop mode, press and hold the **SETUP** button for at least 2 seconds.
The default setting menu appears on the monitor screen.



NOTE

This operation cannot be performed in the PRE-STOP mode. When the disc is being played, press the ■ button twice to set the stop mode.

2 Use the **Joystick** to select “RATING LEVEL”, then press the **ENTER** button.
3 Press the **ENTER** button.
The password input mode is set.



NOTES

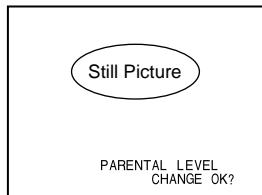
- If you want to change the password, select “CHANGE PASSWORD”, then input the new password (4 digits).
- Write down the password on a piece of paper and store the piece of paper somewhere in case you forget it.
- On unrated DVDs, playback will not be restricted even if the rating level is set.
- Once set, this rating level remains in memory until changed. To enable the play of discs of higher rating levels or to cancel the parental lock, the setting must be changed.
- Not all DVDs provide a Parental Lock feature. If you are unsure about a DVD, play it first to confirm. Do not leave DVDs accessible to young children for whom you deem them inappropriate.



• **Changing the rating level temporarily**

Some discs may request that you change the rating level set in the default settings during playback. In this case, the following message appears on the monitor screen:

Still picture



If this screen appears, change the level as follows:

- **To change parental level and play, press the ENTER button.**
- **To play without changing the parental level, press the ■ button.**
(When the ■ button is pressed, playback will be at the parental level set with "Setting the rating level (parental lock.)")

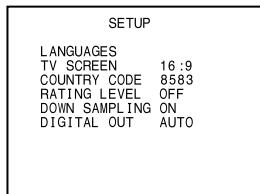
Changing the down sampling setting

Converts linear PCM (LPCM) voice signals recorded on the DVD disc to downsampling 48 kHz/16 bit digital signals and outputs them from the optical cable.

NOTE

When the settings are changed, the old settings are overwritten. Make a note of the current settings before making changes. The settings are not cleared even when the vehicle's battery is disconnected.

- 1 In the stop mode, press and hold the **SETUP** button for at least 2 seconds.
The default setting menu appears on the monitor screen.



NOTE

This operation cannot be performed in the PRE-STOP mode. When the disc is being played, press the ■ button twice to set the stop mode.

- 2 Use the **Joystick** to select "DOWN SAMPLING", then press the **ENTER** button.

- 3 Move the **Joystick** up and down to choose "ON" or "OFF" and, then press the **ENTER** button.

ON

The digital signals recorded on the DVD disc with 96 kHz/24bit, 96 kHz/20bit, 96 kHz/16bit, 48 kHz/24bit, 48 kHz/20bit sampling are converted into digital signals with 48 kHz/16bits sampling for output from the optical output. Set to ON at time of shipment from factory.

OFF

Digital signals sampled at 96kHz/24 bit, 96kHz/20 bit or 96kHz/16 bit and recorded on the DVD cannot be converted to 48 kHz/16 bit sampled digital signal. There is no output from the optical digital output terminal. However, when CSS* scramble is on, a digital signal sampled at 48kHz/16 bit can be converted and sent out through the optical digital output.

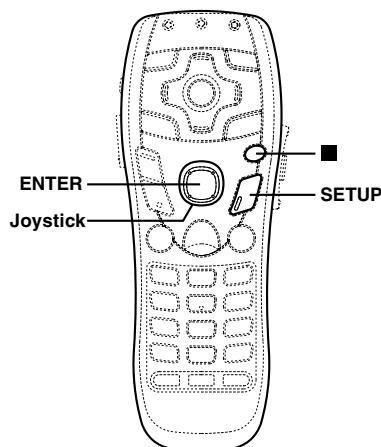
* CSS : An acronym for digital copy encryption protection (Content Scrambling System).

NOTE

Press the RETURN button to return to the previous screen.

- 4 Press and hold the **SETUP** button for at least 2 seconds.
The settings are stored and the set up mode is canceled.

DVD Default Settings (SETUP)



LPCM

The audio signals recorded on the disc are converted into 48 kHz/16 bit (for DVDs) or 44.1 kHz (for video CDs and CDs) linear PCM audio signals for output.

NOTE

Press the RETURN button to return to the previous screen.

- 4 Press and hold the **SETUP** button for at least 2 seconds.
The set up are stored and the set up mode is canceled.

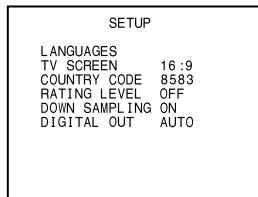
Changing the digital output setting

Use the following procedure to set the audio signal output from the DVA-7996R.

NOTE

When the settings are changed, the old settings are overwritten. Make a note of the current settings before making changes. The settings are not cleared even when the vehicle's battery is disconnected.

- 1 In the stop mode, press and hold the **SETUP** button for at least 2 seconds.
The default setting menu appears on the monitor screen.



NOTE

This operation cannot be performed in the PRE-STOP mode. When the disc is being played, press the ■ button twice to set the stop mode.

- 2 Use the **Joystick** to select "DIGITAL OUT", then press the **ENTER** button.
- 3 Use the **Joystick** to make the selection, then press the **ENTER** button.

AUTO

The digital output is switched automatically according to the type of audio signals being played.

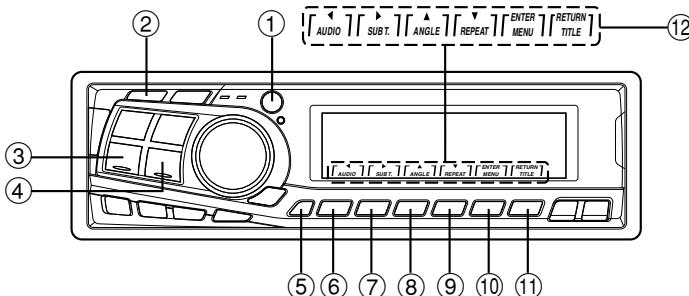
Be sure to select "AUTO" when you want to connect a digital audio processor and play Dolby Digital audio. "AUTO" is selected upon shipment from the factory.

Audio output/Optical digital audio output

Disc	Audio recording format		Digital output setting	Down sampling setting	Optical digital audio output (when a digital audio processor is connected)	Analog audio output (Ai-NET, RCA output)	
DVD	DTS		AUTO	ON	DTS Elementary Stream	OK	
				OFF	DTS Elementary Stream	OK	
			LPCM	ON	LPCM Encode 2ch Down mix (48kHz/16bit)	OK	
				OFF	LPCM Encode 2ch Down mix (48kHz/16bit)	OK	
	Dolby Digital		AUTO	ON	Dolby Digital	OK	
				OFF	Dolby Digital	OK	
			LPCM	ON	LPCM (48kHz/16bit)	OK	
				OFF	LPCM (48kHz/16bit)	OK	
	Linear PCM	48kHz/16bit	AUTO	ON	LPCM (48kHz/16bit)	OK	
				OFF	LPCM (48kHz/16bit)	OK	
			LPCM	ON	LPCM (48kHz/16bit)	OK	
				OFF	LPCM (48kHz/16bit)	OK	
		48kHz/20bit	AUTO	ON	LPCM (48kHz/16bit)	OK	
				OFF	LPCM (48kHz/16bit)	OK	
			LPCM	ON	LPCM (48kHz/16bit)	OK	
				OFF	LPCM (48kHz/16bit)	OK	
		48kHz/24bit	AUTO	ON	LPCM (48kHz/16bit)	OK	
				OFF	LPCM (48kHz/16bit)	OK	
			LPCM	ON	LPCM (48kHz/16bit)	OK	
				OFF	LPCM (48kHz/16bit)	OK	
	96kHz/16bit	AUTO	ON	LPCM (48kHz/16bit)	OK	OK	
			OFF	*	*	OK	
			ON	LPCM (48kHz/16bit)	OK	OK	
			OFF	*	*	OK	
		LPCM	ON	LPCM (48kHz/16bit)	OK	OK	
			OFF	*	*	OK	
			ON	LPCM (48kHz/16bit)	OK	OK	
			OFF	*	*	OK	
	96kHz/20bit	AUTO	ON	LPCM (48kHz/16bit)	OK	OK	
			OFF	*	*	OK	
			ON	LPCM (48kHz/16bit)	OK	OK	
			OFF	*	*	OK	
		LPCM	ON	LPCM (48kHz/16bit)	OK	OK	
			OFF	*	*	OK	
			ON	LPCM (48kHz/16bit)	OK	OK	
			OFF	*	*	OK	
	MPEG2		AUTO or LPCM	ON or OFF	LPCM (48kHz/16bit)	OK	
Video CD	MPEG1		AUTO or LPCM	ON or OFF	LPCM (44.1kHz)	OK	
CD	Linear PCM		AUTO or LPCM	ON or OFF	LPCM (44.1kHz)	OK	
	DTS		AUTO	ON	DTS Elementary Stream	OK	
				OFF	DTS Elementary Stream	OK	
			LPCM	ON	LPCM Encode 2ch Down mix (44.1kHz/16bit)	OK	
				OFF	LPCM Encode 2ch Down mix (44.1kHz/16bit)	OK	
MP3	MPEG Audio Layer3 Bit Rate: 32kbps~320kbps	32kHz/16bit	AUTO or LPCM	ON or OFF	LPCM Encode 2ch (32kHz/16bit)	OK	
		44.1kHz/16bit	AUTO or LPCM	ON or OFF	LPCM Encode 2ch (44.1kHz/16bit)	OK	
		48kHz/16bit	AUTO or LPCM	ON or OFF	LPCM Encode 2ch (48kHz/16bit)	OK	

* When CSS scramble is on : LPCM (48kHz/16 bit)
When CSS scramble is off : no output

DVD Default Settings (SETUP)



Operating DVDs and video CDs using the front panel

① Rear DVD Button (page 40)

Change the setting of the rear DVD function.
Press and hold for at least 2 seconds to switch the remote control sensor.

② ▶/II Button (page 35, 36)

Pause/Playback

③ ▲◀ DN Button (page 36)

- Move to the desired position on the disc.
- During playback, press and hold for more than 1 second to reverse the disc at double speed. Hold for more than 5 seconds to reverse the disc at 8 times the normal speed.

④ ▶▷ UP Button (page 36)

- Move to the desired position on the disc.
- During playback, press and hold for more than 1 second to forward the disc at double speed. Hold for more than 5 seconds to forward the disc at 8 times the normal speed.
- When pressed and held in while in the pause mode, the disc is played in slow motion at 1/8th the normal speed. When held in for 5 more seconds, the slow motion speed switches to 1/2 the normal speed.
- The picture is forwarded by one frame each time the button is pressed in the pause mode.

⑤ F Button

The DVD/video CD indicator upper level/lower level mode operation switches each time the button is pressed.

⑥ 1 Button

- In DVD mode

Indicator upper row (◀) : Selects the item displayed on the screen (left direction).
Indicator lower row (AUDIO) : Switches the audio tracks. (page 38)

- In Video CD mode

Indicator upper row (◀) : Cannot be used.
Indicator lower row (AUDIO) : Switches the audio tracks. (page 38)

⑦ 2 Button

- In DVD mode

Indicator upper row (▶) : Selects the item displayed on the screen (right direction).
Indicator lower row (SUB T.) : Switches the subtitle. (page 38)

- In Video CD mode

Indicator upper row (▶) : Cannot be used.
Indicator lower row (SUB T.) : Cannot be used.

⑧ 3 Button

- In DVD mode

Indicator upper row (▲) : Selects the item displayed on the screen (upper direction).
Indicator lower row (ANGLE) : Switches the angle of the picture. (page 38)

• In Video CD mode

Indicator upper row (▲) : Cannot be used.
Indicator lower row (ANGLE) : Cannot be used.

⑨ 4 Button

- In DVD mode

Indicator upper row (▼) : Selects the item displayed on the screen (lower direction).
Indicator lower row (REPEAT) : Repeats playback. (page 37)

- In Video CD mode

Indicator upper row (▼) : Cannot be used.
Indicator lower row (REPEAT) : Repeats playback. (Only when PBC is OFF) (page 37)

⑩ 5 Button

- In DVD mode

Indicator upper row (ENTER) : Selects the item displayed on the screen.
Indicator lower row (MENU) : Displays the DVD menu.

- In Video CD mode

Indicator upper row (ENTER) : Cannot be used.
Indicator lower row (MENU) : PBC ON/OFF switch (Only Video CD with PBC function)

⑪ 6 Button

- In DVD mode

Indicator upper row (RETURN) : Returns to the previous selection screen.
Indicator lower row (TITLE) : Displays the title menu.

- In Video CD mode

Indicator upper row (RETURN) : Returns to the previous selection screen. (Only when PBC is ON)
Indicator lower row (TITLE) : Cannot be used.

⑫ DVD/Video CD Indicator

The DVD or Video CD playback Indicator lights.

- Indicator upper row

The same operation as the upper level indicator operation (remote control unit and joystick, ENTER and RETURN) can be performed by pressing "F" button once while playing a DVD then pressing "1" to "6" button. When playing a video CD, however (when PBC is turned on), only the RETURN operation is possible.

- Indicator lower row

The lower level indicator operation can be performed by pressing "1" to "6" button while playing a DVD/video CD. When playing a video CD, however, only the AUDIO, MENU (for Video CDs with PBC functions) and REPEAT (only when PBC is turned off) operations are possible.

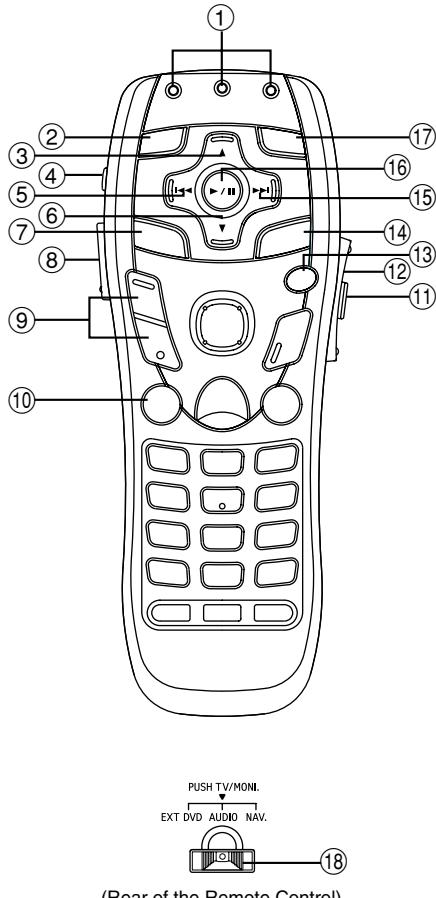
NOTE

Operation may not be performed depending on the disc.

Remote Control Operation

Operating audio for the DVA-7996R

Set the mode selector switch to the "AUDIO" side to perform audio operations on the DVA-7996R.



(Rear of the Remote Control)

- ① **AUDIO/NAV./EXT DVD Transmission Indicator**
When the mode selector switch is switched, the transmission indicators for the various modes light for several seconds.
- ② **A.PROC Button****
Press the button to call the external audio processor mode.*
- ③ **▲ Button**
Radio mode: Pressing the button will select, in ascending order, stations programmed into the radio's presets.
MP3 mode: Press the Folder Select (UP) Button to select the folder.
CD Changer mode: DISC Select (UP) Button
Press the button to select a disc in ascending order.
- ④ **POWER Button**
Press the button to turn the power on/off.
- ⑤ **◀◀ Button**
Radio mode: SEEK (DN) Button

CD/Changer mode: Press the button to go back to the beginning of the current track. Press and hold to fast reverse.

MP3 mode: Press the button to go back to the beginning of the current file.

- ⑥ **▼ Button**
Radio mode: Pressing the button will select, in descending order, stations programmed into the radio's presets.
MP3 mode: Press the Folder Select (DN) Button to select the folder.
CD Changer mode: DISC Select (DN) Button
Press the button to select a disc in descending order.
- ⑦ **V.SEL Button**
Used for switching the screen when the unit is used in combination with a separately sold monitor, etc.
- ⑧ **LIGHT Button**
Lights the indicator.
- ⑨ **ANGLE ▲ / ▼ Button**
Press the button to adjust the angle of the movable audio display.
- ⑩ **REAR Button**
Press and hold for at least 2 seconds to switch the remote control sensor.
- ⑪ **MUTE Button**
Press the button to lower the volume by 20 dB instantly.
Press the button again to cancel.
- ⑫ **VOLUME ▲ / ▼ Button**
To increase or decrease the volume level.
- ⑬ **■ Button**
Performs stop.
- ⑭ **SOURCE Button**
Press to select the audio source.
- ⑮ **▶▶ Button**
Radio mode: SEEK (UP) Button
CD changer mode: Press the button to advance to the beginning of the next track. Press and hold to fast forward.
MP3 mode: Press the button to advance to the beginning of the next file.
- ⑯ **▶/■ Button**
Press the button to switch between play and pause.
- ⑰ **BAND Button**
Radio mode:
Press the button and the band will change.
CD/Changer mode: To switch the disc mode.
- ⑱ **MODE Change Switch**
Set to the "AUDIO" side to operate the DVA-7996R.
Set to the "EXT DVD" side to operate a separately sold DVD product.
Set to the "NAV." side to operate a separately sold navigation product.
When pressed, the mode switches to the TV mode.
Operate while the transmission indicator is flashing.

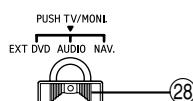
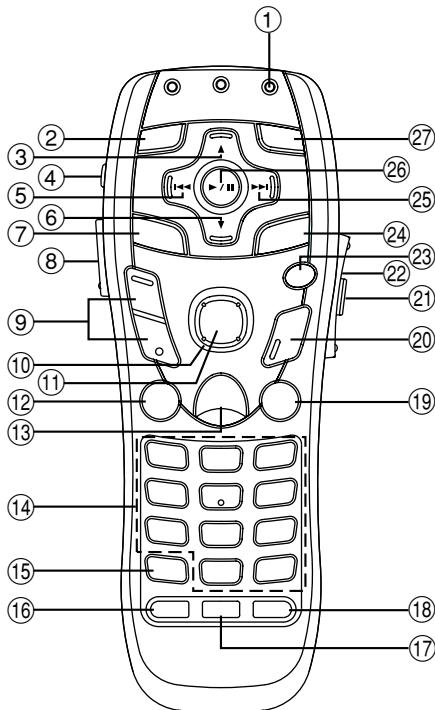
* For the operation of external audio processor, refer to the Owner's Manual of the external audio processor you purchased.

** This button is used in conjunction with an optional Ai-NET processor.

Remote Control Operation

Operating the DVD player/DVD changer (sold separately)

Set the mode selector switch to the "EXT DVD" side to operate a separately sold DVD player or DVD changer.



(Rear of the Remote Control)

① EXT DVD Transmission Indicator

If the mode switch is switched to the EXT DVD side, the transmission indicator flashes for few seconds.

② A.PROC Button

Press the button to call the external audio processor mode.

③ ▲ Button

Disc No. UP (Only for DVD changer)

④ POWER Button

Press the button to turn the power on/off.

Press and hold for at least 5 seconds to switch the NTSC/PAL.

⑤ ▶◀ Button

Starts playback from the beginning of the current chapter or track.

Press and hold for at least 2 seconds to fast-reverse the chapter or track.

⑥ ▼ Button

Disc No. DOWN (Only for DVD changer)

⑦ V.SEL Button

Switches the screen of TV or DVD video.

⑧ LIGHT Button

Lights the indicator.

⑨ ANGLE ▲ / ▼ Button

To change the audio display angle.

⑩ Joystick

Selects the item displayed on the screen.

⑪ ENTER Button

Decides the selected item.

⑫ REAR Button

Outputs the DVD video on the monitor during other source.

⑬ RETURN Button

Returns to the previous selection screen.

⑭ Numeric Keypad

Inputs numbers

⑮ DEL. Button

Deletes one digit of the selected/inputted numbers.
Press and hold for at least 2 seconds to delete all of the selected/inputted numbers.

⑯ AUDIO Button

Switches the audio tracks.

⑰ SUB T. Button

Switches the subtitle.
Press and hold for at least 2 seconds to turn ON/OFF the subtitle display.

⑱ ANGLE Button

Switches the angle.

⑲ DISP/TITLE Button

Starts playback from the beginning of chapter/track/elapsed time.
Press and hold for at least 2 seconds to display the title menu.

⑳ MENU/SETUP Button

Displays the DVD menu.

Press and hold for at least 2 seconds to access SETUP (initial setting).

㉑ MUTE Button

Decreases the volume of DVA-7996R in a moment.
Press the button again to cancel.

㉒ VOLUME ▲ / ▼ Button

Adjusts the volume of the DVA-7996R.

㉓ ■ Button

Performs PRE STOP. Press again to cancel PRE STOP and stop the playback.

㉔ SOURCE Button

Press to select the audio source.

㉕ ►▷ I Button

Starts playback from the beginning of the following chapter or track.

Press and hold for at least 2 seconds to fast forward the chapter or track.

㉖ ►▷ II Button

Performs playback.

Press and hold for at least 2 seconds for slow motion playback.

㉗ BAND Button

Switches the band of the audio side or the disc mode.

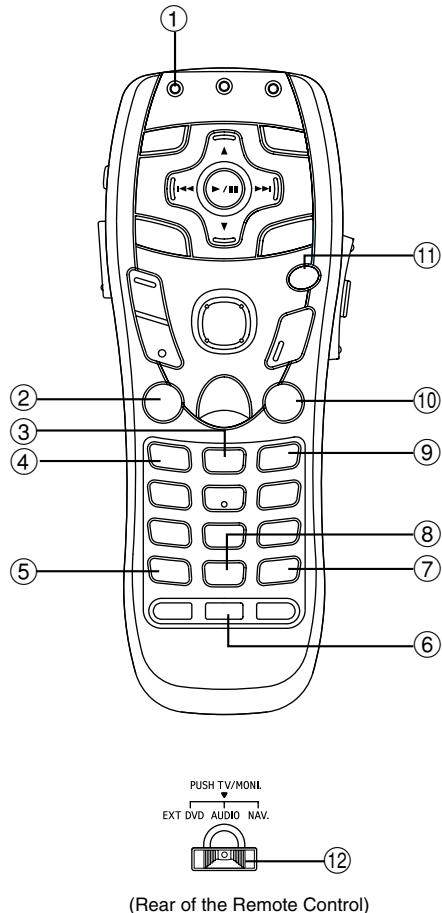
㉘ MODE Change Switch

When operating the connected DVD player/DVD changer, switch to the EXT DVD side.

NOTE

Depending on the disc or playback status, certain operations may not work. In this case, the \ominus mark is displayed on the monitor screen.

Operating the Navigation (sold separately)



(Rear of the Remote Control)

- ⑤ **DEST (Destination) Button**
Displays street name inputting screen.
- ⑥ **DEL.DEST. Button**
Deletes current destination.
- ⑦ **OK M.PT (Memory Point) Button**
Displays the memory point list.
- ⑧ **TEL Button**
Displays the telephone number inputting screen.
- ⑨ **VOICE Button**
Initiates vocal instruction for next route maneuver or repeats last instruction.
- ⑩ **□ Button**
Switches between two pictures and one picture.
- ⑪ **MODE Button**
Press this button to input numerals using the numeric keypad, DEL. and +10 buttons.
After pressing the MODE button, the following buttons will be pressed while the status indicator is blinking:
numerals (0-9), DEL. and +10.
- ⑫ **Mode change switch**
Set this switch to the "NAV" side to operate a connected Alpine navigation system.

Operating a sold separately TV monitor

- To operate a separately sold Alpine TV monitor, press the mode change switch on the rear of the remote control unit. Operate while the transmission indicator is blinking.
- Included remote control unit operation seal: Apply the seal for the type of TV monitor you are using to the rear of the remote control unit.

NOTE

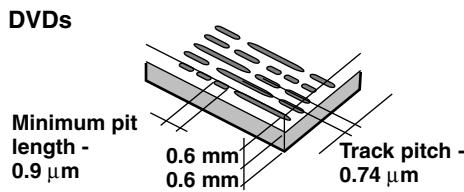
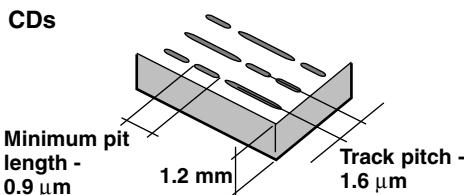
*Operation may differ or may not be possible for some products.
Also refer to the product's operating instructions.*

- ① **NAV. transmission indicator**
The transmission indicator lights for few seconds when the mode selector switch is set to the "NAV." side.
- ② **LO.PT. (Local Point) Button**
Pressing this button displays the current position of the vehicle or local interest points in the vicinity. When this button is pressed, the selection menu for the displayed local points will appear in the display.
- ③ **POS. (Position) Button**
Returns to the current position of your vehicle or displays the latitude/longitude.
When this button is kept pressed, the screen display changes as follows:
→ North-up → Heading-up
- ④ **ROUTE Button**
Pressing this button searches for the route again and switches between motorway preference and ordinary road preference for route searching.

Information

About DVDs

Music CDs and DVDs have grooves (tracks) in which the digital data is recorded. The data is represented as microscopic pits recorded into the track – these pits are read by a laser beam to play the disc. On DVDs, the density of the tracks and pits is twice that of CDs, so DVDs can contain more data in less space.



A 12 cm disc can contain one movie or about four hours of music.

In addition, DVDs provide sharp picture quality with vivid colors thanks to a horizontal resolution of over 500 lines (compared to less than 300 for VHS tape). With the addition of an optional, digital audio processor (PXA-H900/PXA-H510/PXA-H700), you can recreate the power and presence of a movie theater with Dolby Digital 5.1-channel Surround.

Moreover, DVDs offer a variety of functions.

- **Multiple audio* (page 38)**

Movies can be recorded in up to eight languages. The desired language can be selected from the remote control unit.

- **Subtitles function* (page 38)**

Movies can include subtitles in up to 32 languages. The desired subtitle language can be selected from the remote control unit.

- **Multi angle function* (page 38)**

When the DVD contains a movie shot from multiple angles, the desired angle can be selected from the remote control unit.

- **Multi story function***

With this function, a single movie includes various story lines. You can select different story lines to view various versions of the same movie.

Operation differs from disc to disc. Story line selection screens including instructions appear during the movie. Just follow the instructions.

NOTE

* The functions audio languages, subtitle languages, angles, etc., differ from disc to disc. For details, refer to the disc's instructions.

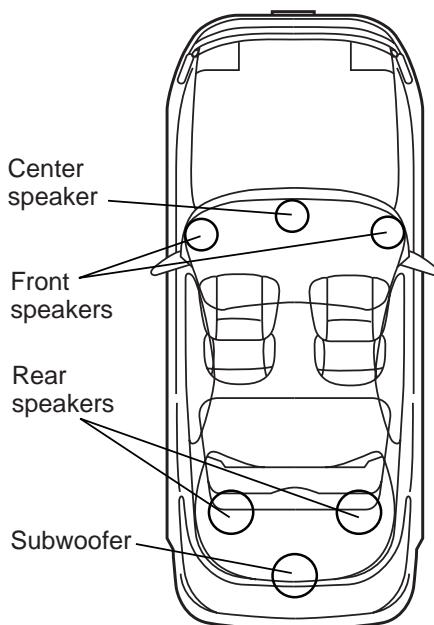
Terminology

Dolby Digital

Dolby Digital is a digital audio compression technology developed by Dolby Laboratories that allows large quantities of audio data to be efficiently recorded on discs. It is compatible with audio signals from mono (1 channel) all the way up to 5.1-channel surround sound. The signals for the different channels are completely independent, and since the sound is high quality digital there is no loss of sound quality.

- * The separately sold digital audio processor (PXA-H510/PXA-H900/PXA-H700) is required to enjoy full 5.1-channel surround sound.

The DVA-7996R performs Dolby Digital decoding when it outputs analog audio signals, it just happens to be 2-channel audio not 5.1-channel.



Speaker layout for enjoying Dolby Digital sound/dts sound

DTS

This is a home-use digital sound format of the DTS Sound System. This is a high quality sound system, developed by Digital Theater Systems Corp for use in movie theaters.

DTS has six independent sound tracks. The theater presentation is fully realized in the home and other settings. DTS is the abbreviation for Digital Theater System.

- * To enjoy DTS surround sound you need the separately sold DTS digital audio processor (PXA-H900/PXA-H700). The DVD video software must also have a DTS sound track.

The DVA-7996R has a built-in DTS 2-channel audio decoder. Analog audio outputs are available.

Dolby Pro Logic

Dolby Pro Logic is the technology used to decode programs encoded in Dolby Surround. Pro logic decoding will provide you with four channels of sound (front left/right, center and monaural rear surround) from a 2-channel (stereo) source.

- * The separately sold digital audio processor (PXA-H510/PXA-H900) is required to enjoy Dolby Pro Logic surround sound.

Dolby Pro Logic II

Dolby Pro Logic II plays 2-channel sources in 5 channels over the entire frequency range. This is done with an advance, high sound quality matrix surround decoder which draws out the spatial properties of the original recording without adding any sounds to or changing the sound of the source.

- * The separately sold digital audio processor (PXA-H700) is required to enjoy Dolby Pro Logic II surround sound.

Linear PCM audio (LPCM)

LPCM is a signal recording format used for music CDs. Whereas music CDs are recorded at 44.1 kHz/16 bits, DVDs are recorded at 48 kHz/16 bits to 96 kHz/24 bits, thereby achieving higher sound quality than music CDs.

Rating levels (parental lock)

This is a function of the DVD for restricting the viewing age as stipulated by laws in different countries. The way in which viewing is restricted differs from DVD to DVD. Sometimes the DVD cannot be played at all, other times certain scenes are skipped, and other times certain scenes are replaced with other scenes.

Information

List of language codes

(For details, see page 41, 42.)

Abbreviation	Code	Language	Abbreviation	Code	Language	Abbreviation	Code	Language
AA	6565	Afar	IE	7369	Interlingue	RN	8278	Kirundi
AB	6566	Abkhazian	IK	7375	Inupiak	RO	8279	Romanian
AF	6570	Afrikaans	IN	7378	Indonesian	RU	8285	Russian
AM	6577	Amharic	IS	7383	Icelandic	RW	8287	Kinyarwanda
AR	6582	Arabic	IT	7384	Italian	SA	8365	Sanskrit
AS	6583	Assamese	IW	7387	Hebrew	SD	8368	Sindhi
AY	6589	Aymara	JA	7465	Japanese	SG	8371	Sangho
AZ	6590	Azerbaijani	JI	7473	Yiddish	SH	8372	Serbo-Croatian
BA	6665	Bashkir	JW	7487	Javanese	SI	8373	Sinhalese
BE	6669	Byelorussian	KA	7565	Georgian	SK	8375	Slovak
BG	6671	Bulgarian	KK	7575	Kazakh	SL	8376	Slovenian
BH	6672	Bihari	KL	7576	Greenlandic	SM	8377	Samoan
BI	6673	Bislama	KM	7577	Cambodian	SN	8378	Shona
BN	6678	Bengali, Bangla	KN	7578	Kannada	SO	8379	Somali
BO	6679	Tibetan	KO	7579	Korean	SQ	8381	Albanian
BR	6682	Breton	KS	7583	Kashmiri	SR	8382	Serbian
CA	6765	Catalan	KU	7585	Kurdish	SS	8383	Siswati
CO	6779	Corsican	KY	7589	Kirghiz	ST	8384	Sesotho
CS	6783	Czech	LA	7665	Latin	SU	8385	Sundanese
CY	6789	Welsh	LN	7678	Lingala	SV	8386	Swedish
DA	6865	Danish	LO	7679	Laothian	SW	8387	Swahili
DE	6869	German	LT	7684	Lithuanian	TA	8465	Tamil
DZ	6890	Bhutani	LV	7686	Latvian, Lettish	TE	8469	Telugu
EL	6976	Greek	MG	7771	Malagasy	TG	8471	Tajik
EN	6978	English	MI	7773	Maori	TH	8472	Thai
EO	6979	Esperanto	MK	7775	Macedonian	TI	8473	Tigrinya
ES	6983	Spanish	ML	7776	Malayalam	TK	8475	Turkmen
ET	6984	Estonian	MN	7778	Mongolian	TL	8476	Tagalog
EU	6985	Basque	MO	7779	Moldavian	TN	8478	Setswana
FA	7065	Persian	MR	7782	Marathi	TO	8479	Tonga
FI	7073	Finnish	MS	7783	Malay	TR	8482	Turkish
FJ	7074	Fiji	MT	7784	Maltese	TS	8483	Tsonga
FO	7079	Faroese	MY	7789	Burmese	TT	8484	Tatar
FR	7082	French	NA	7865	Nauru	TW	8487	Twi
FY	7089	Frisian	NE	7869	Nepali	UK	8575	Ukrainian
GA	7165	Irish	NL	7876	Dutch	UR	8582	Urdu
GD	7168	Scots Gaelic	NO	7879	Norwegian	UZ	8590	Uzbek
GL	7176	Galician	OC	7967	Occitan	VI	8673	Vietnamese
GN	7178	Guarani	OM	7977	(Afan) Oromo	VO	8679	Volapuk
GU	7185	Gujarati	OR	7982	Oriya	WO	8779	Wolof
HA	7265	Hausa	PA	8065	Punjabi	XH	8872	Xhosa
HI	7273	Hindi	PL	8076	Polish	YO	8979	Yoruba
HR	7282	Croatian	PS	8083	Pashto, Pushto	ZH	9072	Chinese
HU	7285	Hungarian	PT	8084	Portuguese	ZU	9085	Zulu
HY	7289	Armenian	QU	8185	Quechua			
IA	7365	Interlingua	RM	8277	Rhaeto-Romance			

List of country codes

(For details, see pages 43.)

Abbreviation	Code	Country	Abbreviation	Code	Country	Abbreviation	Code	Country
AD	6568	Andorra	DM	6877	Dominica	KI	7573	Kiribati
AE	6569	United Arab Emirates	DO	6879	Dominican Republic	KM	7577	Comoros
AF	6570	Afghanistan	DZ	6890	Algeria	KN	7578	Saint Kitts and Nevis
AG	6571	Antigua and Barbuda	EC	6967	Ecuador	KP	7580	Korea, Democratic People's Republic of
AI	6573	Anguilla	EE	6969	Estonia	KR	7582	Korea, Republic of
AL	6576	Albania	EG	6971	Egypt	KW	7587	Kuwait
AM	6577	Armenia	EH	6972	Western Sahara	KY	7589	Cayman Islands
AN	6578	Netherlands Antilles	ER	6982	Eritrea	KZ	7590	Kazakhstan
AO	6579	Angola	ES	6983	Spain	LA	7665	Lao People's Democratic Republic
AQ	6581	Antarctica	ET	6984	Ethiopia	LB	7666	Lebanon
AR	6582	Argentina	FI	7073	Finland	LC	7667	Saint Lucia
AS	6583	American Samoa	FJ	7074	Fiji	LI	7673	Liechtenstein
AT	6584	Austria	FK	7075	Falkland Islands	LK	7675	Sri Lanka
AU	6585	Australia	FM	7077	Micronesia, Federated States of	LR	7682	Liberia
AW	6587	Aruba	FO	7079	Faroe Islands	LS	7683	Lesotho
AZ	6590	Azerbaijan	FR	7082	France	LT	7684	Lithuania
BA	6665	Bosnia and Herzegovina	GA	7165	Gabon	LU	7685	Luxembourg
BB	6666	Barbados	GB	7166	United Kingdom	LV	7686	Latvia
BD	6668	Bangladesh	GD	7168	Grenada	LY	7689	Libyan Arab Jamahiriya
BE	6669	Belgium	GE	7169	Georgia	MA	7765	Morocco
BF	6670	Burkina Faso	GF	7170	French Guiana	MC	7767	Monaco
BG	6671	Bulgaria	GH	7172	Ghana	MD	7768	Moldova, Republic of
BH	6672	Bahrain	GI	7173	Gibraltar	MG	7771	Madagascar
BI	6673	Burundi	GL	7176	Greenland	MH	7772	Marshall Islands
BJ	6674	Benin	GM	7177	Gambia	MK	7775	Macedonia, The former Yugoslav Republic of
BM	6677	Bermuda	GN	7178	Guinea	ML	7776	Mali
BN	6678	Brunei Darussalam	GP	7180	Guadeloupe	MM	7777	Myanmar
BO	6679	Bolivia	GQ	7181	Equatorial Guinea	MN	7778	Mongolia
BR	6682	Brazil	GR	7182	Greece	MO	7779	Macau
BS	6683	Bahamas	GS	7183	South Georgia and the South Sandwich Islands	MP	7780	Northern Mariana Islands
BT	6684	Bhutan	GT	7184	Guatemala	MQ	7781	Martinique
BV	6686	Bouvet Island	GU	7185	Guam	MR	7782	Mauritania
BW	6687	Botswana	GW	7187	Guinea-Bissau	MS	7783	Montserrat
BY	6689	Belarus	GY	7189	Guyana	MT	7784	Malta
BZ	6690	Belize	HK	7275	Hong Kong	MU	7785	Mauritius
CA	6765	Canada	HM	7277	Heard Island and McDonald Islands	MV	7786	Maldives
CC	6767	Cocos (Keeling) Islands	HN	7278	Honduras	MW	7787	Malawi
CD	6768	Congo, the Democratic Republic of the	HR	7282	Croatia	MX	7788	Mexico
CF	6770	Central African Republic	HT	7284	Haiti	MY	7789	Malaysia
CG	6771	Congo	HU	7285	Hungary	MZ	7790	Mozambique
CH	6772	Switzerland	ID	7368	Indonesia	NA	7865	Namibia
CI	6773	Cote d'Ivoire	IE	7369	Ireland	NC	7867	New Caledonia
CK	6775	Cook Islands	IL	7376	Israel	NE	7869	Niger
CL	6776	Chile	IN	7378	India	NF	7870	Norfolk Island
CM	6777	Cameroon	IO	7379	British Indian Ocean Territory	NG	7871	Nigeria
CN	6778	China	IQ	7381	Iraq	NI	7873	Nicaragua
CO	6779	Colombia	IR	7382	Iran, Islamic Republic of	NL	7876	Netherlands
CR	6782	Costa Rica	IS	7383	Iceland	NO	7879	Norway
CU	6785	Cuba	IT	7384	Italy	NP	7880	Nepal
CV	6786	Cape Verde	JM	7477	Jamaica	NR	7882	Nauru
CX	6788	Christmas Island	JO	7479	Jordan	NU	7885	Niue
CY	6789	Cyprus	JP	7480	Japan	NZ	7890	New Zealand
CZ	6790	Czech Republic	KE	7569	Kenya	OM	7977	Oman
DE	6869	Germany	KG	7571	Kyrgyzstan	PA	8065	Panama
DJ	6874	Djibouti	KH	7572	Cambodia			
DK	6875	Denmark						

Continued

Information

Abbreviation	Code	Country	Abbreviation	Code	Country	Abbreviation	Code	Country
PE	8069	Peru	SJ	8374	Svalbard and Jan Mayen	TW	8487	Taiwan, Province of China
PF	8070	French Polynesia	SK	8375	Slovakia	TZ	8490	Tanzania, United Republic of
PG	8071	Papua New Guinea	SL	8376	Sierra Leone	UA	8565	Ukraine
PH	8072	Philippines	SM	8377	San Marino	UG	8571	Uganda
PK	8075	Pakistan	SN	8378	Senegal	UM	8577	United States Minor Outlying Islands
PL	8076	Poland	SO	8379	Somalia	US	8583	United States
PM	8077	Saint Pierre and Miquelon	SR	8382	Suriname	UY	8589	Uruguay
PN	8078	Pitcairn	ST	8384	Sao Tome and Principe	UZ	8590	Uzbekistan
PR	8082	Puerto Rico	SV	8386	El Salvador	VA	8665	Holy See (Vatican City State)
PT	8084	Portugal	SY	8389	Syrian Arab Republic	VC	8667	Saint Vincent and the Grenadines
PW	8087	Palau	SZ	8390	Swaziland	VE	8669	Venezuela
PY	8089	Paraguay	TC	8467	Turks and Caicos Islands	VG	8671	Virgin Island, British
QA	8165	Qatar	TD	8468	Chad	VI	8673	Virgin Islands, U.S.
RE	8269	Reunion	TF	8470	French Southern Territories	VN	8678	Viet Nam
RO	8279	Romania	TG	8471	Togo	VU	8685	Vanuatu
RU	8285	Russian Federation	TH	8472	Thailand	WF	8770	Wallis and Futuna
RW	8287	Rwanda	TJ	8474	Tajikistan	WS	8783	Samoa
SA	8365	Saudi Arabia	TK	8475	Tokelau	YE	8969	Yemen
SB	8366	Solomon Islands	TM	8477	Turkmenistan	YT	8984	Mayotte
SC	8367	Seychelles	TN	8478	Tunisia	YU	8985	Yugoslavia
SD	8368	Sudan	TO	8479	Tonga	ZA	9065	South Africa
SE	8369	Sweden	TP	8480	East Timor	ZM	9077	Zambia
SG	8371	Singapore	TR	8482	Turkey	ZW	9087	Zimbabwe
SH	8372	Saint Helena	TT	8484	Trinidad and Tobago			
SI	8373	Slovenia	TV	8486	Tuvalu			

In Case of Difficulty

If you encounter a problem, please turn the power off, then on again. If the unit is still not functioning normally, please review the items in the following checklist. This guide will help you isolate the problem if the unit is at fault. Otherwise, make sure the rest of your system is properly connected or consult your authorized Alpine dealer.

Basic

No function or display.

- Vehicle's ignition is off.
 - If connected following instructions, the unit will not operate with the vehicle's ignition off.
- Improper power lead connections.
 - Check power lead connections.
- Blown fuse.
 - Check the fuse on the battery lead of the unit; replace with the proper value if necessary.
- Internal micro-computer malfunctioned due to interference noise etc.
 - Press the RESET switch with a ballpoint pen or other pointed article.

Radio

Unable to receive stations.

- No antenna or open connection in cable.
 - Make sure the antenna is properly connected; replace the antenna or cable if necessary.

Unable to tune stations in the seek mode.

- You are in a weak signal area.
 - Make sure the tuner is in the DX mode.
- If the area you are in is a primary signal area, the antenna may not be grounded and connected properly.
 - Check your antenna connections; make sure the antenna is properly grounded at its mounting location.
- The antenna may not be the proper length.
 - Make sure the antenna is fully extended; if broken, replace the antenna with a new one.

Broadcast is noisy.

- The antenna is not the proper length.
 - Extend the antenna fully; replace it if it is broken.
- The antenna is poorly grounded.
 - Make sure the antenna is grounded properly at its mounting location.

CD/MP3/DVD/Video CD

Disc playback sound is wavering.

- Moisture condensation in the disc Module.
 - Allow enough time for the condensation to evaporate (about 1 hour).

Disc insertion not possible.

- A disc is already in the DVD player.
 - Eject the disc and remove it.
- The disc is being improperly inserted.
 - Make sure the disc is being inserted following instructions in the CD (MP3/DVD/Video CD) Player Operation section.

Unable to fast forward or backward the disc.

- The disc has been damaged.
 - Eject the disc and discard it; using a damaged disc in your unit can cause damage to the mechanism.

Disc playback sound skips due to vibration.

- Improper mounting of the unit.
 - Securely re-mount the unit.
- Disc is very dirty.
 - Clean the disc.
- Disc has scratches.
 - Change the disc.
- The pick-up lens is dirty.
 - Do not use a commercial available lens cleaner disc. Consult your nearest ALPINE dealer.

Disc playback sound skips without vibration.

- Dirty or scratched disc.
 - Clean the disc; damaged disc should be replaced.

CD-R/CD-RW playback not possible.

- Close session (finalization) has not been performed.
 - Perform finalization and attempt playback again.

Error displays

- Mechanical error
 - Press the **▲** button. After the error indication disappears, insert the disc again. If the above-mentioned solution does not solve the problem, consult your nearest ALPINE dealer.

MP3 is not played back.

- Writing error occurred. The CD format is not compatible.
 - Make sure the CD has been written in a supported format. Refer to "About MP3" on pages 32-33, then rewrite in the format supported by this device.

Unit does operate.

- Monitor's power is not turned on.
 - Turn on the monitor's power.
- Condensation.
 - Wait a while (about 1 hour) for the condensation to dry.

No picture is produced.

- Monitor's mode is not switched to the mode you want to see.
 - Switch to the mode you want to see.
- Monitor's parking brake cord is not connected.
 - Connect the monitor's parking brake cord and set the parking brake.
(For details, refer to the monitor's instructions.)
- Monitor's parking brake is not set.
 - Connect the monitor's parking brake cord and set the parking brake.
(For details, refer to the monitor's instructions.)

Playback does not start.

- Disc is loaded upside-down.
 - Check the disc and load it with the labeled side facing upward.
- Disc is dirty.
 - Clean the disc.
- A disc not able to playback with this unit is loaded.
 - Check if the disc is able to be played back.
- Parental lock is set.
 - Cancel the parental lock or change the rating level.
- Setup menu is displayed.
 - Press the SETUP button for at least 2 seconds to turn the menu off.

Continued

Information

Picture is unclear or noisy.

- Disc is being fast-forwarded or fast-reversed.
 - The picture may be slightly disturbed, but this is normal.
- Vehicle's battery power is weak.
 - Check the battery power and wiring.
(The unit may malfunction if the battery power is under 11 volts with a load applied.)
- Monitor's fluorescent tube is worn.
 - Replace the monitor's fluorescent tube.

Image stops sometimes.

- Disc is scratched.
 - Replaced with a non-scratched disc.

Indication for CD/MP3

HI TEMP

- Protective circuit is activated due to high temperature.
 - The indicator will disappear when the temperature returns to within operation range.
 - Leave the power OFF until the temperature decreases and then turn the power ON again.

NO DISC

- No disc is inserted.
 - Insert a disc.
- Although a disc is inserted, "NO DISC" is displayed and the unit does not start to play or eject the disc.
 - Remove the disc by following these steps:
 - 1) Press the Δ button.
The movable display will open.
 - 2) Press the Δ button again for at least 3 seconds while the movable display is open.

ERROR

- Mechanism error.
 - 1) Press the Δ button and eject the CD.
If not ejecting, consult your Alpine dealer.
 - 2) When the error indication remains after ejecting, press the Δ button again.
If the error indication still does not turn off after pressing the Δ button for a few times, consult your Alpine dealer.

NOTE

When the "ERROR" is displayed:

In case that the disc cannot be ejected by pressing the Δ button, press the RESET switch (refer to page 7) and press the Δ button again.

If not ejecting, consult your Alpine dealer.

Indication for DVD/Video CD

NO DISC

(Audio display)

- No disc is inserted.
 - Insert a disc.
- Although a disc is inserted, "NO DISC" is displayed and the unit does not start to play or eject the disc.
 - Remove the disc by following these steps:
 - 1) Press the Δ button.
The movable display will open.
 - 2) Press the Δ button again for at least 3 seconds while the movable display is open.



(Monitor display)

- Remote control operation is not possible.

- For some discs or playing modes, certain operations are not possible. This is not a malfunction.

REGIONAL CODE VIOLATION

ERROR

(Audio display)

(Monitor display)

- Disc does not match regional code number.

- Load a disc that matches the regional code number.

HI-TEMP

HI TEMP

(Audio display)

(Monitor display)

- Protective circuit is activated to high temperature.
 - The indicator will disappear when the temperature returns to within operation range.
 - Leave the power OFF until the temperature decreases and then turn the power ON again.

LOADING ERROR

ERROR

(Audio display)

EJECT ERROR

(Monitor display)

- Mechanism error.

1) Press the Δ button and eject the disc.

If not ejecting, consult your Alpine dealer.

2) When the error indication remains after ejecting, press the Δ button again.

If the error indication still does not turn off after pressing the Δ button for a few times, consult your Alpine dealer.

DISC ERROR

ERROR

(Audio display)

(Monitor display)

- Scratched disc, contaminated disc/poor recording/disc incompatible with this unit.
 - Press the Δ button.
 - Change the disc.

ERROR

(Audio display)

- The temperature in the car is too low.
 - Raise the temperature in the car to normal temperature.

Indication for CD Changer

HI-TEMP

- Protective circuit is activated due to high temperature.
 - The indicator will disappear when the temperature returns to within operation range.

ERROR - 01

- Malfunction in the CD Changer.
 - Consult your Alpine dealer. Press the magazine eject button and pull out the magazine.
Check the indication. Insert the magazine again.
If the magazine cannot be pulled out, consult your Alpine dealer.
- Magazine ejection not possible.
 - Press the magazine eject button. If the magazine does not eject, consult your Alpine dealer.

ERROR - 02

- A disc is left inside the CD Changer.
 - Press the Eject button to activate the eject function. When the CD Changer finishes the eject function, insert an empty CD magazine into the CD Changer to receive the disc left inside the CD Changer.

NO MAGZINE

- No magazine is loaded into the CD Changer.
 - Insert a magazine.

NO DISC

- No indicated disc.
 - Choose another disc.

Information

Specifications

FM TUNER SECTION

Tuning Range	87.5 – 108.0 MHz
Mono Usable Sensitivity	0.7 µV
Alternate Channel Selectivity	90 dB
Signal-to-Noise Ratio	65 dB
Stereo Separation	35 dB
Capture Ratio	2.0 dB

MW TUNER SECTION

Tuning Range	531 – 1,602 kHz
Sensitivity (IEC Standard)	25.1 µV/28 dB

LW TUNER SECTION

Tuning Range	153 – 281 kHz
Sensitivity (IEC Standard)	31.6 µV/30 dB

CD/DVD SECTION

Frequency Response	5 – 20,000 Hz
Wow & Flutter (% WRMS)	Below measurable limits
Total Harmonic Distortion	0.008% (at 1 kHz)
Dynamic Range	95 dB (at 1 kHz)
Channel Separation	90 dB (at 1 kHz)
Signal system	NTSC/PAL
Horizontal resolution	500 lines or greater
Video output level	1Vp-p (75 ohms)
Video S/N ratio	DVD: 70 dB
Audio S/N ratio	More than 115 dB

PICKUP

Wave length	655 nm
Laser power	CLASS II

REMOTE CONTROL

Battery Type	"AAA" sized dry battery
Battery Quantity	2
Width	56 mm (2-1/4")
Height	142.5 mm (5-5/8")
Depth	37 mm (1-7/16")
Weight	72 g (2.54 oz)

GENERAL

Power Requirement	14.4 V DC (11–16 V allowable)
Maximum Pre-Output Voltage	5 V/10 k ohms
Bass	±14 dB at 60 Hz
Treble	±14 dB at 10 kHz
Weight	2.0 kg (4 lbs. 7 oz)
Audio output level	
Preout (Front, Rear) :	5V/10k ohms (max.)
Preout (Subwoofer) :	4V/10k ohms (max.)
Auxout:	1.2V/10k ohms
Ai-NET:	850 mV

CHASSIS SIZE

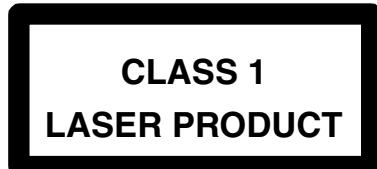
Width	178 mm (7")
Height	50 mm (2")
Depth	155 mm (6-1/8")

NOSEPIECE SIZE

Width	170 mm (6-11/16")
Height	46 mm (1-13/16")
Depth	18 mm (11/16")

Due to continuous product improvement, specifications and design are subject to change without notice.

CAUTION



(Bottom side of player)

CAUTION-Laser radiation when open, DO NOT STARE INTO BEAM

(Bottom side of player)

Installation and Connections

Before installing or connecting the unit, please read the following and pages 3 and 4 of this manual thoroughly for proper use.

⚠ Warning

MAKE THE CORRECT CONNECTIONS.

Failure to make the proper connections may result in fire or product damage.

USE ONLY IN CARS WITH A 12 VOLT NEGATIVE GROUND.

(Check with your dealer if you are not sure.) Failure to do so may result in fire, etc.

BEFORE WIRING, DISCONNECT THE CABLE FROM THE NEGATIVE BATTERY TERMINAL.

Failure to do so may result in electric shock or injury due to electrical shorts.

DO NOT SPLICER INTO ELECTRICAL CABLES.

Never cut away cable insulation to supply power to other equipment. Doing so will exceed the current carrying capacity of the wire and result in fire or electric shock.

DO NOT DAMAGE PIPE OR WIRING WHEN DRILLING HOLES.

When drilling holes in the chassis for installation, take precautions so as not to contact, damage or obstruct pipes, fuel lines, tanks or electrical wiring. Failure to take such precautions may result in fire.

DO NOT USE BOLTS OR NUTS IN THE BRAKE OR STEERING SYSTEMS TO MAKE GROUND CONNECTIONS.

Bolts or nuts used for the brake or steering systems (or any other safety-related system), or tanks should NEVER be used for installations or ground connections. Using such parts could disable control of the vehicle and cause fire etc.

KEEP SMALL OBJECTS SUCH AS BATTERIES OUT OF THE REACH OF CHILDREN.

Swallowing them may result in serious injury.

If swallowed, consult a physician immediately.

DO NOT INSTALL IN LOCATIONS WHICH MIGHT HINDER VEHICLE OPERATION, SUCH AS THE STEERING WHEEL OR GEARSHIFT.

Doing so may obstruct forward vision or hamper movement etc. and results in serious accident.

⚠ Caution

HAVE THE WIRING AND INSTALLATION DONE BY EXPERTS.

The wiring and installation of this unit requires special technical skill and experience. To ensure safety, always contact the dealer where you purchased this product to have the work done.

USE SPECIFIED ACCESSORY PARTS AND INSTALL THEM SECURELY.

Be sure to use only the specified accessory parts. Use of other than designated parts may damage this unit internally or may not securely install the unit in place. This may cause parts to become loose resulting in hazards or product failure.

ARRANGE THE WIRING SO IT IS NOT CRIMPED OR PINCHED BY A SHARP METAL EDGE.

Route the cables and wiring away from moving parts (like the seat rails) or sharp or pointed edges. This will prevent crimping and damage to the wiring. If wiring passes through a hole in metal, use a rubber grommet to prevent the wire's insulation from being cut by the metal edge of the hole.

DO NOT INSTALL IN LOCATIONS WITH HIGH MOISTURE OR DUST.

Avoid installing the unit in locations with high incidence of moisture or dust. Moisture or dust that penetrates into this unit may result in product failure.

Precautions

- Be sure to disconnect the cable from the (-) battery post before installing your DVA-7996R. This will reduce any chance of damage to the unit in case of a short-circuit.
- Be sure to connect the color coded leads according to the diagram. Incorrect connections may cause the unit to malfunction or damage to the vehicle's electrical system.
- When making connections to the vehicle's electrical system, be aware of the factory installed components (e.g. on-board computer). Do not tap into these leads to provide power for this unit. When connecting the DVA-7996R to the fuse box, make sure the fuse for the intended circuit of the DVA-7996R has the appropriate amperage. Failure to do so may result in damage to the unit and/or the vehicle. When in doubt, consult your ALPINE dealer.
- The DVA-7996R uses female RCA-type jacks for connection to other units (e.g. amplifier) having RCA connectors. You may need an adaptor to connect other units. If so, please contact your authorized ALPINE dealer for assistance.

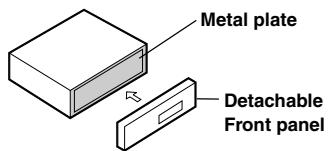
IMPORTANT

Please record the serial number of your unit in the space provided below and keep it as a permanent record. The serial number plate is located on the bottom of the unit.

SERIAL NUMBER: _____
INSTALLATION DATE: _____
INSTALLATION TECHNICIAN: _____
PLACE OF PURCHASE: _____

Installation and Connections

Installation



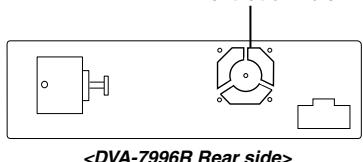
Caution

When you install this unit in your car, do not remove the Detachable Front Panel. If the Detachable Front Panel is removed during installation, you might press too hard and warp the metal plate that holds it in place.

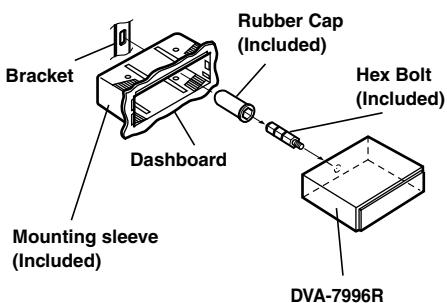
Caution

Do not block the unit's fan or heat sink, thus preventing air circulation. If blocked, heat will accumulate inside the unit and may cause a fire.

Air ventilation hole

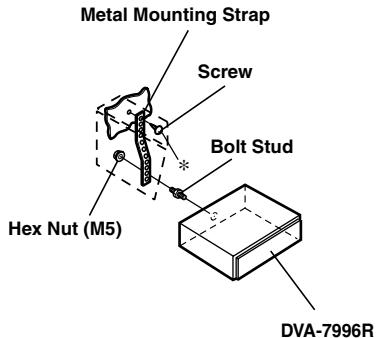


1



Slide mounting sleeve from main unit (see "Removal" on this page). Slide the mounting sleeve into the dashboard.

2

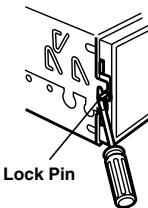


When your vehicle has the Bracket, mount the long hex bolt onto the rear panel of the DVA-7996R and put the Rubber Cap on the hex bolt. If your vehicle does not have the Mounting Support, reinforce the head unit with the metal mounting strap (not supplied). Connect all the leads of the DVA-7996R according to details described in the CONNECTION section.

NOTE

For the screw *, provide a proper screw to the chassis installing location.

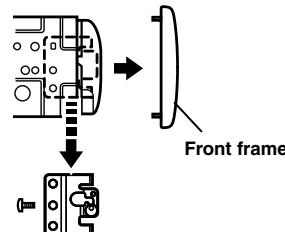
- Slide the DVA-7996R into the dashboard. When the unit is in place, make sure the locking pins are fully seated in the down position. This can be done by pressing firmly in on the unit while pushing the locking pin down with a small screwdriver. This ensures that the unit is properly locked and will not accidentally come out from the dashboard. Install the Detachable Front Panel.



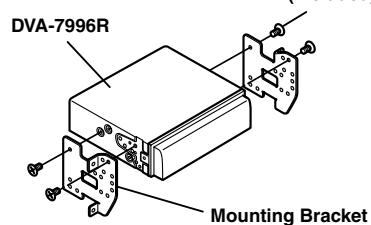
Removal

- Remove the detachable front panel.
- Use a small screwdriver (or similar tool) to push the locking pins to the "up" position (see above drawing). As each pin is unlocked, gently pull out on the unit to make sure it does not re-lock before unlocking the second pin.
- Pull the unit out, keeping it unlocked as you do so.

<JAPANESE CAR>

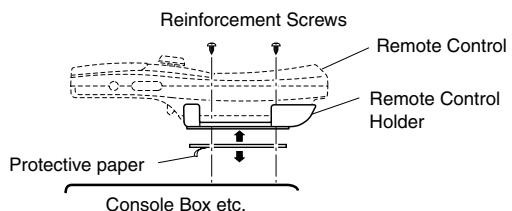


Screws (M5 × 8)
(Included)

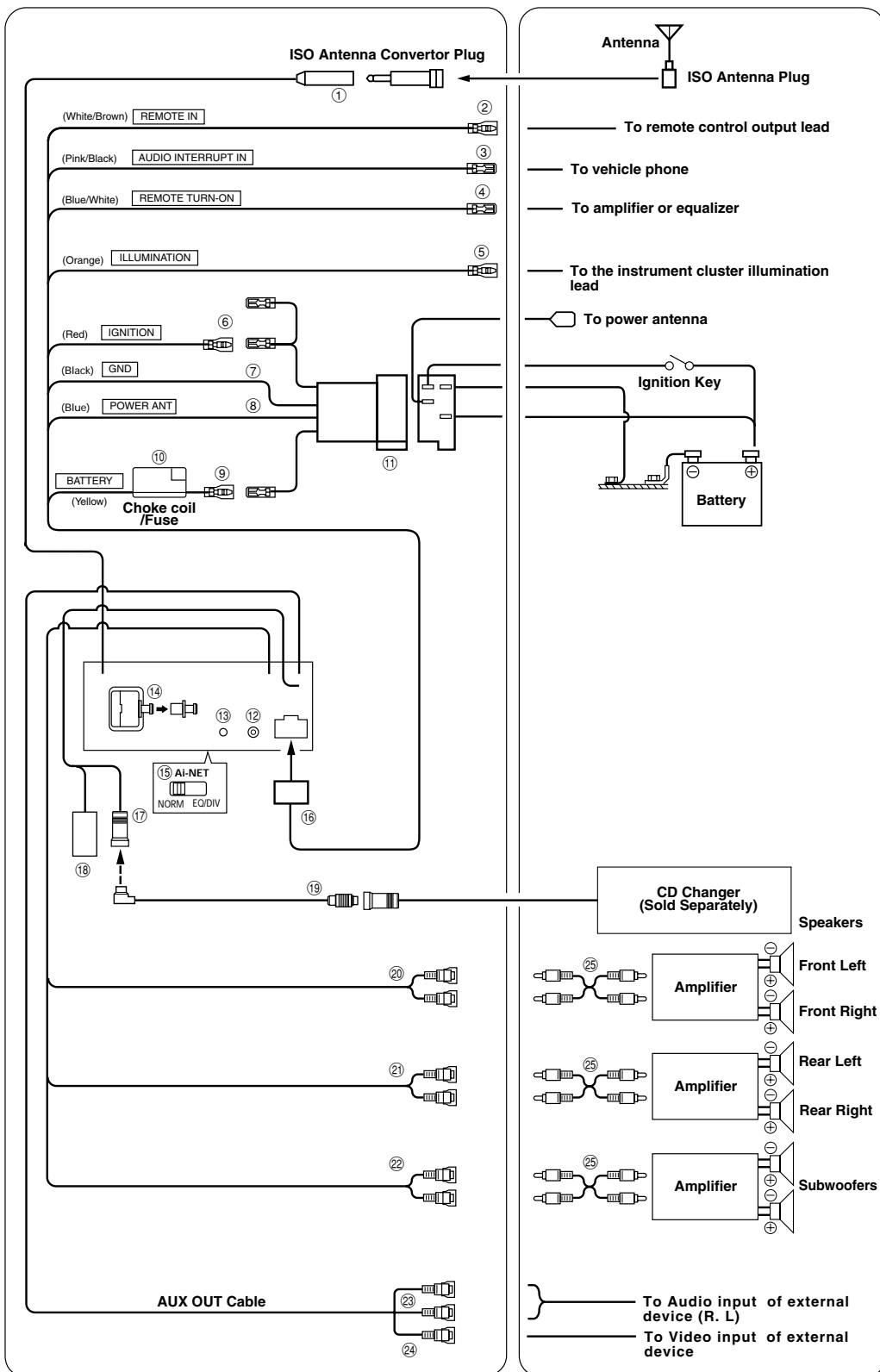


● Mounting the remote control holder

- If the remote control is in direct sunlight, remove it from the holder and keep it in the glove box.
- When the holder cannot be mounted securely with Velcro tape, mount it by using screws.



Connections



Installation and Connections

① Antenna Receptacle

Connect to the supplied ISO antenna convertor plug.

② Remote Control Input Lead (White/Brown)

Connect the external Alpine product to the remote control output lead.

③ Audio Interrupt In Lead (Pink/Black)

Connect this lead to the Audio Interface output of a cellular phone which provides ground shorting when a call is received.

④ Remote Turn-On Lead (Blue/White)

Connect this lead to the remote turn-on lead of your amplifier or signal processor.

⑤ Dimmer Lead (Orange)

This lead may be connected to the vehicle's instrument cluster illumination lead. This will enable the vehicle's dimmer control to dim the backlighting of the unit.

⑥ Switched Power Lead (Ignition) (Red)

Connect this lead to an open terminal on the vehicle's fuse box or another unused power source which provides (+) 12V only when the ignition is turned on or in the accessory position.

⑦ Ground Lead (Black)

Connect this lead to a good chassis ground on the vehicle. Make sure the connection is made to bare metal and is securely fastened using the sheet metal screw provided.

⑧ Power Antenna Lead (Blue)

Connect this lead to the +B terminal of your power antenna, if applicable.

NOTE

This lead should be used only for controlling the vehicle's power antenna. Do not use this lead to turn on an amplifier or a signal processor, etc.

⑨ Battery Lead (Yellow)

Connect this lead to the positive (+) post of the vehicle's battery.

⑩ Fuse Holder (10A)

⑪ ISO Power Supply Connector

⑫ External Remote

Use when applying the separately sold remote control sensor unit.

⑬ Steering Remote

To remote control interface box.

⑭ Digital Output Terminal (Optical)

Use when combining fiber digital input compatible products.

⑮ System Switch

When connecting a processor using Ai-NET, place this switch in the EQ/DIV position. When no device is connected, leave the switch in the NORM position.

NOTE

Be sure to turn the power off to the unit before changing the switch position.

⑯ Power Supply Connector

⑰ Ai-NET Connector

Connect this to the output or input connector of other product (CD changer, Equalizer, etc.) equipped with Ai-NET.

⑱ DC/DC Converter

NOTES

- Do not install the converter at a location subjected to water such as under the floor mat or air conditioner. This may cause a malfunction.
- Do not bundle the DC/DC converter cable with other audio cables. Doing so may induce noise into your system.
- Keep the DC/DC converter away from the Antenna cables and the rear side of the unit, otherwise noise may be generated when receiving radio broadcast.

⑲ Ai-NET Cable (Included with CD Changer)

⑳ Front Output RCA Connectors

RED is right and WHITE is left.

㉑ Rear Output RCA Connectors

RED is right and WHITE is left.

㉒ Subwoofer Output RCA Connectors

RED is right and WHITE is left.

㉓ Audio Output Connectors

RED is right and WHITE is left. Output the audio.

㉔ Video Output Connectors (Yellow)

Output the video.

㉕ RCA Extension Cable (Sold Separately)

To prevent external noise from entering the audio system.

- Locate the unit and route the leads at least 10 cm away from the car harness.
- Keep the battery power leads as far away from other leads as possible.
- Connect the ground lead securely to a bare metal spot (remove any paint, dirt or grease if necessary) of the car chassis.
- If you add an optional noise suppressor, connect it as far away from the unit as possible. Your Alpine dealer carries various noise suppressors, contact them for further information.
- Your Alpine dealer knows best about noise prevention measures so consult your dealer for further information.

System Example

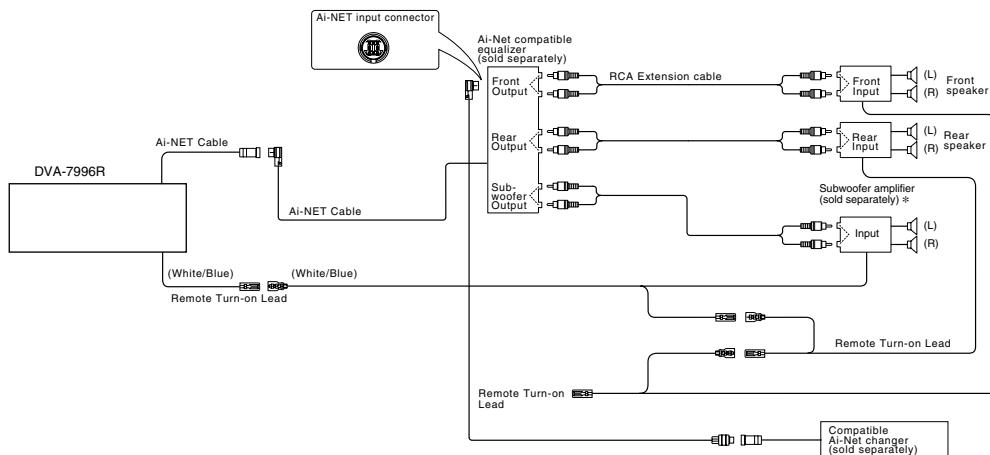
- Connect the Ai-NET compatible equalizer and the changer

System switch | **EQ/DIV**

In this case, tone control operations can only be performed on the equalizer. (Tone bypass function) **

A small icon of a pencil, oriented vertically, positioned next to the word "Tips".

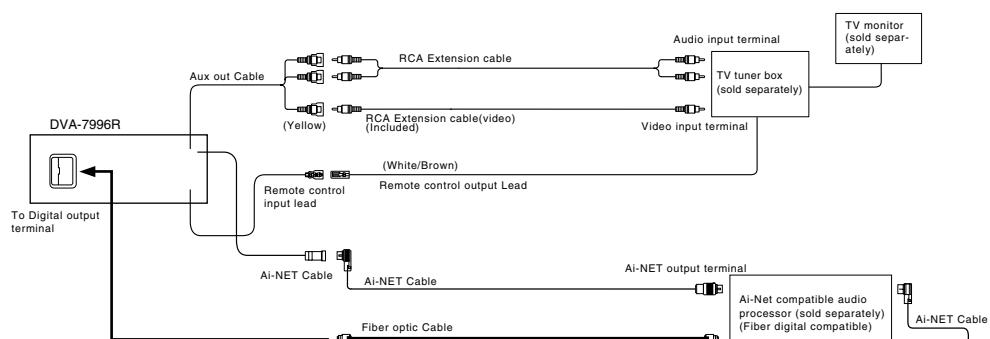
Set the system switch to "NORM" when only a changer is connected (when the Ai-NET compatible equalizer is not used).



- * An amplifier with a built-in low pass filter is required.
- ** Tone bypass function: With this function, the tone is adjusted using the equalizer's tone control circuit (without using the head unit's tone control circuit).

- Connect the Ai-NET compatible audio processor (Fiber digital compatible) and TV monitor/changer

System switch | EQ/DIV



Tips

- When the fiber digital compatible product is connected, it is necessary to set the mode of this unit. Refer to "Setting the Digital Out Put" (page 17) and set to ON. Then refer to "External Audio Processor Optical Digital Input Selection Setting" (page 18) and switch the setting.
- * When connecting with PXA-H510 :
 - Connect the fiber digital input terminal to the DVD.
 - DVA-7996R and DVA-5205P cannot be connected simultaneously when fiber digital is in use.

CORRECTION/BERICHTIGUNG/CORRECTION/ CORRECCIÓN/CORREZIONE/RÄTTELSE

ALPINE

English

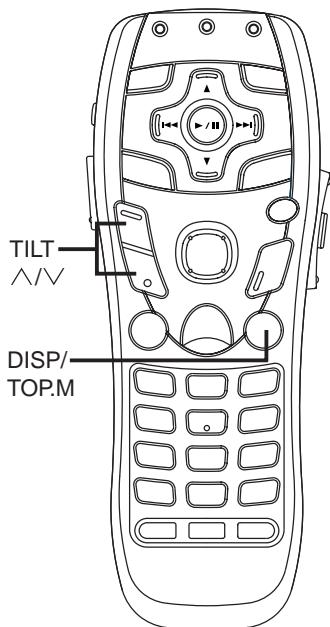
There is a mistake in the button name of supplied remote control on pages 49 and 50 of Owner's Manual.

<Incorrect>

- ANGLE \wedge / \vee Button
- DISP/TITLE Button

<Correct>

- TILT \wedge / \vee Button
- DISP/TOP.M Button



Deutsch

Auf den Seiten 49 und 50 der Bedienungsanleitung befindet sich ein Fehler hinsichtlich einer Tastenbezeichnung der im Lieferumfang enthaltenen Fernbedienung.

<Falsch>

- ANGLE \wedge / \vee -Taste
- DISP/TITLE-Taste

<Richtig>

- TILT \wedge / \vee -Taste
- DISP/TOP.M-Taste

Français

Il y a une erreur dans le nom de la touche de la télécommande fournie, pages 49 et 50 du mode d'emploi.

<Incorrect>

- Touche ANGLE \wedge / \vee
- Touche DISP/TITLE

<Correct>

- Touche TILT \wedge / \vee
- Touche DISP/TOP.M

Español

Hay un error en el nombre del botón del mando a distancia proporcionado en las páginas 49 y 50 del manual de operación.

<Incorrecto>

- Botón ANGLE \wedge / \vee
- Botón DISP/TITLE

<Correcto>

- Botón TILT \wedge / \vee
- Botón DISP/TOP.M

Italiano

Ci è un errore nel nome del tasto di telecomando in dotazione su pagine 49 e 50 delle istruzioni per l'uso.

<Errato>

- Tasto ANGLE \wedge / \vee
- Tasto DISP/TITLE

<Corretto>

- Tasto TILT \wedge / \vee
- Tasto DISP/TOP.M

Svenska

Det finns ett misstag i tangentnamnet hos den medföljande fjärrkontrollen på sidorna 49 och 50 i handboken.

<Fel>

- ANGLE \wedge / \vee -tangent
- DISP/TITLE-tangent

<Rätt>

- TILT \wedge / \vee -tangent
- DISP/TOP.M-tangent

